

In re Application of:
Rheins and Morhenn
Application No.: 09/375,609
Filed: August, 17, 1999
Exhibit I - Page 1

PATENT
Attorney Docket No.: DERM1100-1

EXHIBIT I

CURRICULUM VITAE OF DR. GERALD G. KRUEGER

CURRICULUM VITAE

PERSONAL DATA

Name: Gerald G. Krueger, MD
Birth date: March 28, 1940
Birthplace: Melville, North Dakota
Citizenship: United States
SSN#: 501-42-4648

CURRENT TITLE

Professor, Cumming Presidential Endowed Chair, Department of Dermatology,
University of Utah Health Sciences Center, Salt Lake City, Utah

ADDRESS

University of Utah
Department of Dermatology
4B454 SOM
30 N 1900 E
Salt Lake City, UT 84132-2409
Tele 801/581-7837
FAX 801/581-6484
email = krueger@derm.med.utah.edu

EDUCATION

- Baccalaureate Degree: 1962, Union College, Lincoln, Nebraska - Chemistry
- Advanced Degree: 1966, Loma Linda University of Medicine, Loma Linda, California - Doctor of Medicine
- Internship: 1966-67, Fitzsimons General Hospital, Denver, Colorado (rotating internship)
- Residency: 1969-72, University of Colorado Medical Center, Denver, Colorado - Dermatology
- 1970-71, Course work in immunology at University of Colorado, Denver, Colorado
- Board Certification: 1973, Dermatology

MEDICAL LICENSURE

- California -- inactive
- Colorado -- inactive
- North Carolina -- inactive
- Utah -- active -- license #72-153996-1205

HONORS:

- Alpha Omega Alpha,

- Taub International Award for Psoriasis Research, 1984
- Listing in "The Best Doctors in America"
- First Edition 1990, Second Edition 1994
- National Psoriasis Foundation -- Lifetime Achievement Award 1993
- American Skin Association " The 1998 Psoriasis Research Award"
- National Psoriasis Foundation 1998 Founders Award

PROFESSIONAL EXPERIENCE

Military Service:

- 1967-69, General Medical Officer, Fort Bragg, North Carolina, and Republic of Viet Nam. Promoted to Major in 1968 from secondary zone; honorable discharge, June 1972.

Editorial Experience:

- Currently referee for: The Journal of Investigative Dermatology, Archives of Dermatology, Journal of the American Academy of Dermatology, and Journal of Clinical Investigation.
- Editorial Board of Skin Pharmacology (1987 to 1993)
- Associate Editor of The Journal of Investigative Dermatology (7/87 - 6/92)
- Assistant Editor of The Journal of Investigative Dermatology (7/92 - 6/97)
- Associate Editor of The Journal of Investigative Dermatology (7/97 - current)
- Editorial Board PsoriasisNet for the American Academy of Dermatology 6/00 - current)

RESEARCH SUPPORT

Grants - Principal Investigator

1. NIH Grant #2-PO1-AM15640, "Immunology of psoriasis" (Two subsections: Cell-mediated immunity and psoriasis; Artificial animal model of psoriasis), \$420,000 total direct costs, 5/1/75-4/30/78
2. NIH Grant #1-RO1-AM21405, "Psoriasis: Its genotype and pathogenesis: Model system," \$788,220 total direct costs, 9/30/78-3/31/89.
3. Letterman Army Institute of Research, "Studies in percutaneous absorption," \$25,472 total direct costs, 10-1-80 - 9-31-81.
4. US Army Grant DAMD17-82-C-2214, "Feasibility of human skin grafts on an isolated but accessible vascular supply on athymic rats as a system to study percutaneous penetration and cutaneous injury", \$550,000, 9/1/82-4/30/86.
5. Hoffmann-La Roche, Inc., Acne study using a nude mouse model," \$7500 total direct costs, 1981-83.
6. CIBA-GEIGY Pharmaceuticals, "Basics of percutaneous absorption and metabolism of agents applied to the rat-human flap model system," co-PI, \$125,000 total direct costs, 9/1/84-8/31/86.
7. NIH NO1 AI32510, "Comparison of three different interferon preparations in the intralesional treatment of condyloma acuminata," subcontract with University of Rochester, \$146,000 total direct costs, 2/1/85-7/31/86.
8. Royal Pharmaceuticals, "Study of triacantanol in guinea pig dermatitis," \$3000 total direct costs, 1-1-86 - 1-1-87.
9. Schering-Plough Corporation, "Development of an animal model to study the formation of calluses," \$13,889 total direct costs, 6-1-87 - 5-31-88.
10. The Upjohn Company, "A study to Determine the Feasibility of Using Human Scalp Grafts as a System to Study Drugs Which Effect Hair Growth," \$31,219 total direct costs, 7-1-87 - 9-30-89.

11. PHS AR 017-1046, "Tissue Culture Component for the Development of Prosthetic Replacement for the Urinary Tract," subcontract, Utah Biomedical Test Laboratories, \$9148 total direct costs, 2-1-89 - 6-14-89
12. NIH 1 RO1 CA48109-02, "Suppressor T-cell Manipulation as a Cancer Therapy". \$235,222 total direct costs, 9/1/88-8/31/91, 10% effort
13. NIH PO1 HD28528-01, "Use of genetically defined skin to treat disease," Role = Director/Principal Investigator 4/1/92-6/30/97 direct costs in year one = \$474,749; Total direct costs \$2,557,303
14. NIH PO1 HD28528-07, "Use of genetically defined skin to treat disease," Role = Director/Principal Investigator; Reviewed 4/98 --> score 1.7 percentile, 4 Projects 3 Cores; Award date 12/1/98; duration 12/1/98 - 11/31/03 direct costs in year one = \$813,000; Total direct costs \$4,316,327.

Grants - Co-investigator

1. NIH, "Antiviral substances in the treatment of herpes," 1975-77.
2. NIH, "Cyclic nucleotides and alveolar macrophage activation," 1976-79.
3. NIOSH RFP: 210-77-0027-000, "Study of the health effects of oil shale workers," 1977-79.
4. NIH, Grant RO1 AM/AI 33543: Ia antigens on epidermal cells: Their immunologic role, PI: LK Roberts, \$235,981 total direct costs, 5% effort, 1984-1989
5. DHHS/PHS Food & Drug Administration, #223-87-1801, "Development of Methods for Assessing Bioavailability of Topical Drug Products in Human Skin," PI: LK Pershing, 19% effort, \$560,000 total direct costs, 9-30-87 - 9-29-90.
6. NIH CA 50298-01 "Biology and Chemoprevention of Melanoma in Nevus Grafts".
7. total direct costs, 9/1/89 to 8/31/92, 8% effort.
8. DHHS/PHS Food & Drug Administration, #223-87-1801, "Development of Methods for Assessing Bioavailability of Topical Drug Products in Human Skin," PI: LK Pershing, 15% effort, 4/1/91 to 3/31/94; Total direct costs \$274,280.
9. NIH RO1 DA07820-01 "Disposition of drugs of abuse into hair" 4/1/92 to 3/31/96, direct costs in year one = \$244,384; Total direct costs \$999,038.
10. NIH via SBIR to Molecules for Health; Phase 1, Total direct costs ~\$9,600, 9/1/91 to 3/31/92.
11. NIH via SBIR to BioMarine Technologies Inc; Phase I, Total direct costs to U of Utah Dermatology ~\$9,600, 11/1/91 to 9/1/92.
12. NIH via SBIR to BioMarine Technologies Inc; Phase II, Total direct costs to U of Utah Dermatology ~\$34,000; 9/1/92 to 8/30/94.
13. NIH Hair analysis to monitor drug abuse treatment; PI Diana G Wilkins PhD; % effort for GGK = 5%; Year 1 budget = \$125,553; Total direct budget = \$535,397; 10/1/94 to 6/30/98.
14. NIH via Skin Disease Research Core Center Grant, Department of Dermatology University of Texas Southwestern, PI P Bergstresser, 5 P30 AR 41940-04; Seed grant, "Isolation and characterization of androgen-regulated and dermal papilla-specific genes expressed in cultured human dermal papilla cells", P.I. @ UTSW is MJ

- McPhaul; funding for 9 months, ends 5/30/96; total Univ of Utah funds, \$10,212, direct costs \$6831.
15. Renewed 6/1/96 through 5/31/97 total Univ of Utah funds, \$9,522, direct costs \$6,469.
 16. NIH RO1 DA07820-05 "Disposition of drugs of abuse into hair" 4/1/96 to 3/31/00, direct costs in year one = \$201,496; Total direct costs \$820,869.
 17. NIH via Skin Disease Research Core Center Grant, Department of Dermatology University of Texas Southwestern, PI P Bergstresser, 5 P30 AR 41940-05; Demonstration grant, included in renewal of Center Grant, " Isolation and characterization of androgen-regulated and dermal papilla-specific genes expressed in cultured human dermal papilla cells", P.I. @ UTSW is MJ McPhaul; funding 6/1/97 to 5/31/98.

LABORATORY INVESTIGATIONS - PRINCIPAL INVESTIGATOR

(1/1/92 to current)

18. Searle: Disposition of spironolactone in human skin oral vs. topical (1/1/92-12/31/92) total direct costs \$16,000.
19. Genta: Methotrexate - deposition in human skin oral vs. topical (9/1/92 - 2/1/93) \$12,863.
20. Genta: Anti-sense feasibility studies (9/1/92 - 11/1/93) \$85,822.
renewed (12/1/93 - 11/30/94) \$89,000
21. Genta: Anti-sense to androgen receptor in hair follicles (2/1/94 - 1/31/95) \$116,000
22. Dermigen: Assessment of carcinogenic effect of topically applied petroleum middle distillates on human skin (11/30/91 to 12/31/97) \$48,700
23. Procter and Gamble (invited after pre-proposal) Isolation and characterization of androgen-regulated and dermal papilla-specific genes expressed in cultured human dermal papilla cells, PI MJ McPhaul, Co-PI GG Krueger, 5/1/97 to 4/30/99, \$50,000/year split between UTSW & U of U, the total includes indirect costs, negotiated @ 25%
24. Dermigen: Assessment of carcinogenic effect of topically applied petroleum middle distillates on human skin (9/1/97 to 6/30/98) total direct \$20,388, total \$30,484
25. Utah Psoriasis Initiative – Genotype predicts Phenotype, Physical Features to Response to Treatment. Initial funding Movitz Foundation, National Psoriasis. Foundation, DNA Sciences and GGK Development Fund, July 2002 to current
26. Development of a Treatment Assessment Tool for Psoriasis. Initial funding GGK Development Fund, September 2002 to current.

CLINICAL DRUG STUDIES - PRINCIPAL INVESTIGATOR

1. Hoffmann-La Roche, Inc., Retinoids in the treatment of psoriasis and disorders of keratinization, 1979-88, \$115,000 total direct costs.
2. Westwood Pharmaceuticals, Inc., Desquam-X Wash for acne, 1982, \$18,000 total direct costs.

3. Eli Lilly & Co., Benoxaprofen in the treatment of psoriasis, 11/83, \$59,000 total direct costs.
4. The Upjohn Company, Cleocin acne study, 1983, \$18,000 total direct costs.
5. Westwood Pharmaceuticals, Inc., Alpha Keri Bath Gel for treatment of dermatitis, 1984, \$9,250 total direct costs.
6. Hoechst-Roussel Pharmaceuticals, Inc., Prednicarbate in the treatment of psoriasis, 1984, \$20,000 total direct costs.
7. Schering Corporation, Interferon for the treatment of condyloma acuminata, 1984, \$41,500 total direct costs.
8. Syntex, Inc., Timobesone in the treatment of psoriasis, 1984, \$13,500 total direct costs.
9. McNeil Pharmaceuticals, Fenretinide in the treatment of psoriasis, 1984, \$15,000 total direct costs.
10. Hoechst-Roussel Pharmaceuticals, Inc., ATS in the treatment of acne, 1985, \$12,500 total direct costs.
11. Glaxo, Removate in the treatment of psoriasis, 1985, \$38,000 total direct costs.
12. Schering Corporation, Diprolene in the treatment of psoriasis, 1985, \$100,600 total direct costs.
13. Hoffmann-La Roche, Inc., RO 10-1670 in the treatment of psoriasis, 1986, \$43,750 total direct costs.
14. Interferon Sciences, Interferon in the treatment of genital herpes, 1986, \$43,000 total direct costs.
15. The Upjohn Company, Minoxidil in the treatment of male pattern baldness, 1986, \$155,500 total direct costs.
16. UltraThermics, Inc., Hyperthermia in the treatment of psoriasis, 1987, \$4,500 total direct costs.
17. Burroughs Wellcome Co., Acyclovir in the treatment of sun-induced herpes simplex labialis, 1987, \$44,900 total direct costs.
18. Pharmaco Dynamics Research Inc., Retin-A in the treatment of actinic keratoses, 1987, \$63,450 total direct costs.
19. Pharmaco Dynamics Research Inc., Retin-A in the treatment of actinic keratoses, Phase II, 1988, \$51,850 total direct costs.
20. Glaxo Inc., Fluticasone in the treatment of psoriasis, 1988, \$38,945 total direct costs.
21. Glaxo Inc., Temovate in the treatment of psoriasis, 1988, \$32,160 total direct costs.
22. Herbert Laboratories, Tretinoin vs. erythromycin in the treatment of acne, 1989, \$25,450 total direct costs.
23. Burroughs Wellcome Co., Piritrexim in the treatment of psoriasis, 1989, \$68,744 total direct costs.
24. Genderm Corporation, Capsaicin in the treatment of psoriasis, 1989, \$13,577 total direct costs.
25. Penederm Inc., Methotrexate in the treatment of psoriasis, 1989, \$54,750 total direct costs.

26. Sandoz; Psoriasis vs cyclosporine @ 4 mg/kg bid vs qd; 9/1/91-12/31/92 total direct costs \$109,381.
27. Hoechst Roussel; Psoriasis vs Dermatopp 10/10/90-6/1/91; total direct costs \$43,070
28. Herbert; Psoriasis vs AGN 9/1/90-12/31/90; total direct costs \$21,362.
29. Glaxo; Protocol FPS-301; 4/1/91-3/31/92; total direct costs \$28,474.
30. Iomed; Iontophoresis of Dexamethasone for psoriasis of nails; 3/31/91-6/30/92; total direct costs \$30,000.
31. Herbert-Allergan Protocol R168 111 7997, psoriasis vs AGN 190168; 9/1/91-7/31/92; total direct costs \$29,497.
32. Bristol-Meyers/Squibb; DE127-009 psoriasis vs calcipotriol; 3/1/92-9/1/92; total direct costs \$33,060.
33. Iomed; NAFT-01F-92 fungal disease of fingernails; 4/1/92-7/1/93; total direct costs \$43,870.
34. SmithKline Beecham; Topical Auranofin, 3 doses in the treatment of psoriasis; 2/15/93 - 9/1/93; total costs \$43,615.
35. Amgen Inc.; I.V. r-met hu interleukin 2 in severe psoriasis; 5/1/93 - 4/30/94; total costs \$56,069.
36. Herbert-Allergan, psoriasis vs AGN 190168 a two dose vs. placebo - pivotal study; 6/1/93 - 5/31/93; total costs \$72,891.
37. Galderma, Metrogel vs vehicle post clearing in acne rosacea, U9403 / Proj # 00-4602; 4/1/94 -6/1/95; total costs \$27,994.
38. SmithKline Beecham; Leukotriene receptor inhibitor (SB 201993) for the treatment of psoriasis; 9/1/94 - 8/30/95; total costs \$55,195.
39. Genta Inc; Hand eczema study comparing two forms of betamethasone; 5/1/94 - 3/1/95; total costs \$35,279.
40. Oclassen Pharmaceuticals; Cordran Tape vs Psoricon to treat psoriasis; 8/1/94-6/1/95; \$24,740.
41. Bristol Meyers Squibb, Vaccination with KLH and X174 to determine immune responsiveness in non-treated patients with psoriasis, 9/1/95 to 8/30/96, 5 patients, total costs \$25,755.
42. Allergan, A multi-center, open label, dose-response study designed to assess the safety and efficacy of AGN 192013/LGD1057, in doses ranging from 0.15 mg/kg to 1.5 mg/kg to patients with severe plaque psoriasis, 11/1/95 to 10/31/96, 15 patients; direct costs \$18,732 total costs \$34,705.
43. Allergan, Safety and efficacy of Retinoid 0.1% gel verses vehicle gel applied once every other day for up to 24 weeks in plaque psoriasis, 11/1/95 to 10/31/96, 36 patients; direct costs \$55,188, total costs \$70,344.
44. Allergan, Safety and efficacy of Retinoid 0.1% gel applied once daily for 8 weeks in the treatment of plaque psoriasis and the effect of Retinoid 0.1% gel during the first two weeks of treatment on molecular markers in treated plaques; 5/1/96 to 4/30/97, 20 patients; total costs \$34,698.

45. Merck Clinical Research, Protocol 002-00 L-733,725 to study a new immuno-suppressive in a dose response fashion, 1/1/96 to 12/31/96, 16 patients, total costs \$75,120.
46. Isis Pharmaceuticals, An open-labeled pilot study to evaluate the safety and efficacy of intravenous ISIS 2302 (ICAM-1 Antisense) in patients with mild to moderate plaque type psoriasis vulgaris, 10 patients 5/1/96 to 4/30/97, total costs \$95,120.
47. Bristol-Meyers Squibb, Protocol IM101-005 Dose ranging study of CTLA4-Ig to treat psoriasis, 10 patients, 3/1/97-6/30/98, total costs \$104,960.
48. Biogen, Protocol C96-703, Dose ranging study of LFA3tips to treat psoriasis, 10 patients, 5/1/97 - 8/31/98, total costs \$205,055.
49. Fujisawa USA Inc, Protocol 97-0-035, A phase III, randomized, double-blind study comparing topically applied tacrolimus ointment vs. vehicle ointment in adult patients with atopic dermatitis, 25 patients, 8/1/97 to 7/31/98;
50. Tap Holdings, Protocol M97-698, A multiple dose-response study of oral TAK-603 in patients with plaque psoriasis, 19 patients, 11/1/97 to 10/31/98, total budget \$43,978.
51. Allergan, Protocol 190168-017C-00 Multi-center, double-blind, randomized, vehicle-controlled study of the safety and efficacy of 0.025%, 0.05% and 0.1% tazarotene creams applied once daily for 12 weeks in the treatment of plaque psoriasis, 48 patients, 12/1/97 to 11/30/98, total budget \$85,281.
52. Biogen, Protocol C97-708, Dose ranging study of LFA-3/TIPS to treat psoriasis, 10 patients, 8/1/98 - 10/31/99, costs \$10,760/patient , total = \$107,600.
53. Abgenix, Protocol ABX-L8-9701, 8 patients, costs \$6568/patient, total = \$52,544.
54. XOMA Protocol HUAA255 for the treatment of severe alopecia areata 10/1/98-9/30/99, costs/patient \$6359, total for 6 patients \$38,154; (Cancelled 2/1/99).
55. Biogen Protocol C97-709 to test safety and pharmacokinetics of three routes of administration of LFA3TIP in patients with psoriasis, 11/1/98 -10/31/99, costs per patient \$13,739, total for 6 patients \$82,434.
56. TheraTech Protocol AF98010 to study fluconazole in tape to treat onychomycosis, 10/1/98 - 4/30/2000, costs/patient \$2182, total for 17 patients \$37,086.
57. Vertex Protocol VX98-497-101 A randomized, blinded, dose-ranging, safety, tolerability and preliminary efficacy trial with VX-497 in patients with severe chronic plaque-type psoriasis, 1/15/99 - 1/30/00, costs per patient \$9,826, total for 7 patients \$68,782.
58. Abgenix, Protocol ABX-L8-9802, A randomized, placebo controlled, multiple dose, dose-rising clinical trial of the safety and effectiveness of four dose levels of ABX-IL8 in patients with moderate to severe plaque psoriasis, 2/20/99 - 3/31/00, 10 patients, costs \$9,174/patient, total = \$91,740.
59. Fountain Pharmaceuticals Inc; IND 57,404, filed by G G Krueger; Comparison of the efficacy and safety of clobetasol proprionate in a liposome based vehicle vs. clobetasol proprionate in a cream -based vehicle in the treatment of patients with chronic plaque psoriasis, 2/1/99 - 3/31/00, 50 patients, costs per patient \$1,824, total = \$91,201.

60. Allergan, A multicenter, double-blind, vehicle-controlled, bilateral, paired-comparison study of the safety and efficacy of AGN 194310 0.01% ointment applied once daily for 4 weeks in the treatment of patients with plaque psoriasis; 4/1/99 to 5/30/00, 15 patients, costs/patient \$1,605, total costs \$24,075.
61. Connetics, A multicenter study of Clobetasol foam vs cream in psoriasis; Protocol CPCD.C004 11/1/99-10/31/2000, 27 patients, costs/pt \$1,345, total costs \$36,315.
62. Allergan, A multicenter trial of Tazorac for actinodermatosis, Protocol # AGN 190168-034C, 12/1/99-11/30/2001, 40 patients \$2109/ pt, total costs \$84,379.
63. Fujisawa USA Inc, Protocol 97-0-038, An open label, long term follow-up study to evaluate the safety of topically applied tacrolimus ointment for the treatment of atopic dermatitis, up to 25 patients, continued open study of patients on protocol 97-0-035, 4/1/98 to 12/31/2000; budget = \$20,400.
64. Fujisawa USA Inc, Protocol 99-0-054, An open-label study to evaluate the safety of topically applied tacrolimus ointment for the treatment of atopic dermatitis, up to 20 patients, 7/1/99 to 12/31/2000; budget = \$32,000.
65. Biogen, Protocol C99-711, A randomized double-blind comparison of intravenous LFA-3/TIP versus placebo in subjects with chronic psoriasis, 10 patients budgeted, 3 patients entered, 12/18/98 - 12/31/01; costs \$18,846/patient , total = \$56,538.
66. Biogen, Protocol C99-714, An open-label study to determine the tolerability and efficacy of repeat courses of LFA-3/TIP in subjects with chronic psoriasis who have previously completed the C978-708 or C98-709 study, 10 patients budgeted, 3 patients entered, 4/1/2000 - 3/31/01; costs \$6426/patient , total = \$19,278.
67. Genentech Inc Protocol ACD2058g, A phase III, randomized, double-blind study to evaluate the efficacy and safety of subcutaneously administered anti-CD11a in adults with moderate to severe plaque psoriasis, 20 patients budgeted, 7 patients entered, 2/7/2000 - 6/30/2002; costs \$16,993/patient, total = \$118,951.
68. Genentech Inc Protocol ACD2062g, An open-label, multidose, multicenter study to evaluate the safety and tolerability of subcutaneously administered anti-CD11a in adults with plaque psoriasis previously treated with anti-CD11a or placebo no more than 7 patients from forgoing (ACD2058g) study eligible ? patients entered, 8/1/2000 - 6/30/2002; costs \$4,400/patient, total = \$?????
69. ISIS Pharmaceuticals, Protocol 2302-CS14, A randomized double-masked, placebo-controlled, pilot study of the safety and efficacy of ISIS 2302 (ICAM-1) topical cream in patients with mild to moderate plaque -type psoriasis vulgaris, 12 patients budgeted, 2/14/2000 - 5/31/2001; costs \$5,682.50/patient, total = \$68,190.
70. Abgenix, Protocol ABX-0204, A two-part, multicenter, randomized, double-blind, placebo controlled, multiple dose, trial of ABX-IL8 in patients with moderate to severe plaque psoriasis, 5/16/2000 - 11/30/2001 budget is for 10 patients for each part of the study, costs \$13,781.25/patient, total = \$275,625.
71. Biogen, Univ of Utah Dept of Dermatology, and Univ of Utah GCRC, Reduction of CD45RO T lymphocytes as a predictor of improvement in psoriasis after treatment with methotrexate, 2/1/01 - 1/31/02 budget is for 25 patients, \$116,648.

72. Univ of Utah Dept of Dermatology (Movitz Foundation and GGK Gift Account), DNA Sciences, and the NPF, Familiality of psoriasis in Utah. 2/15/2001 – 10/31/2002, not with budget at this time (3/27/2001).
73. Univ of Utah Dept of Dermatology (Movitz Foundation and GGK Gift Account), Acitretin and commercial tanning bed combination therapy for patients with psoriasis, 2/1/2001 – 10/31/2001, budget \$18,000.
74. Immunex Inc, Double-blind randomized, placebo-controlled phase II study of Enbrel® (Etanercept) in the treatment of psoriasis, budget is for 10 patients, 10/1/2000 – 9/30/2001, \$41,657.
75. ISIS Pharmaceuticals, Protocol ISIS 104838-CS5, A randomized double-masked, placebo-controlled, pilot study of the safety and efficacy of ISIS 104838-CS5 (TNF- α) topical cream in patients with mild to moderate plaque-type psoriasis vulgaris, 10 patients budgeted, 7/01/01 – 6/30/02; costs \$5896/patient, total = \$58,692.
76. Connetics, A multicenter study of Clobetasol foam vs cream in psoriasis; Protocol CPCD.C005, 5/1/01 to 12-/31/01, 20 patients, costs/pt \$1,842, total costs \$36,847.
77. Watson Therapeutics, A multicenter trial of antifungal patch/placebo patch for onychomycosis, Protocol AF01003 10/1/2001 – 12/31/2003, 16 patients, costs.pt \$2,986 total costs \$58,080.
78. Allergan, A multicenter long-term trial of Tazarotene for psoriasis, Protocol AGN 190168-050P, 10/1/01 – 5/31/03, 10 patients, costs/pt \$9,059, total costs \$109,494.
79. Fugisawa Healthcare, A pK trial of topical Protopic in pts with atopic dermatitis, Protocol FHI 01-0-100, 12 patients, cost /pt \$11,125, total cost \$152,429.
80. Novartis, A multi-center placebo controlled trial of topical picrolimus for atopic dermatitis CASM 981 US03, 6 patients, 8/15/01 – 12/31.02, cost/pt \$3,692, total cost \$24,188.
81. Fugisawa Healthcare, A pK trial of topical Protopic in pts with psoriasis, Protocol FHI 01-0-100, 12 patients, cost /pt \$14,132. total cost \$169,590.
82. Fugisawa Healthcare, A phase trial of topical Protopic in pts with psoriasis, Protocol FHI 01-0-126, 14 patients, cost /pt \$5,184, total cost \$72,478.
83. Immunex, A Phase 2 dose ranging trial for psoriasis using etanercept Protocol 0016.0039, 12 patients, cost /pt \$10,283, total cost \$123,400.
84. Immunex, A Phase 3 trial for psoriasis using etanercept Protocol 0016.0042, 10 patients, cost /pt \$5,593 total cost \$55,930.

PRIVATELY FILED IND'S

- PUVA experimental use in a community run psoriasis treatment center; 1975 to 1979
- Comparative trial of two different topical corticosteroid preparations (novel vs standard) for severe hand eczema; 1994-1995
- Comparative trial of clobetasol dipropionate in a cream vehicle applied twice daily with that of clobetasol dipropionate in a liposomal vehicle applied twice daily for the treatment of plaque psoriasis 1998-99

ADMINISTRATIVE EXPERIENCE -- Appointments:

- 7/1/72-7/1/77: Assistant Professor of Medicine, Division of Dermatology, Department of Internal Medicine, University of Utah School of Medicine, Salt Lake City, Utah
- 7/1/72-7/1/87: Head, Division of Dermatology, Department of Medicine, University of Utah School of Medicine, Salt Lake City, UT
- 7/1/77-6/30/82: Associate Professor of Medicine, as above.
- 7/1/82-6/1/96: Professor of Medicine, as above.
- 6/1/96-2/28/01: Professor of Dermatology, Department of Dermatology, University of Utah Health Sciences Center, Salt Lake City, Utah
- 7/1/84-Present: Adjunct Professor of Pathology, Department of Pathology, University of Utah School of Medicine, Salt Lake City, Utah
- 3/1/01 to Present Professor of Dermatology, Cumming Presidential Endowed Chair in the Department of Dermatology, University of Utah Health Sciences Center, Salt Lake City, Utah

PROFESSIONAL COMMUNITY ACTIVITIES

- Board of Councilors, Western Section of the Society for Investigative Dermatology, 1976-1978
- Board of Directors, American Dermatologic Society for Allergy and Immunology, 1978-1984
- Board of Directors, American Society of Professors of Dermatology, 1980-85.
- Board of Directors, National Ichthyosis Foundation, 1983-1992.
- Advisory Board, International Psoriasis Symposium, 1983-1990.
- President, American Dermatologic Society for Allergy and Immunology, 1983-84.
- Chairman, NIH committee to evaluate psoriasis research, present and future directions in 1984.
- GMA-1 Study Section of NIAMD of NIH, ad hoc member, 1980-82, permanent member, 1985-88
- National Psoriasis Foundation, Medical Advisory Board, 1985-current
- Chairman, Goals Committee, Association of Professors of Dermatology, 1985
- Board of Directors, Society for Investigative Dermatology, 1985-1988
- Co-Chairman for organizing the 1989 Deer Valley Psoriasis Workshop: Molecular, Immunologic and Pharmacologic Aspects of Psoriasis. Published as a supplement to J Invest Dermatol 95:1s-63s, 1990.
- Co-Chairman for organizing the 1991 Deer Valley Psoriasis Workshop: Immunogenetics of Psoriasis.
- Executive Committee, Dermatology Foundation, 1987 - current
- President, Dermatology Foundation, 1988-1991
- Medical Advisory Board, Pennederm, 1990 - 1996
- Scientific Advisory Board Iomed 1991 - 1997

- Aids Related Research -E (ARR-E) Study Section 1989 - 1993
- Member of the Research Advisory Council to NIAMS for the AAD 1991 - current
- Long Range Planning Committee for the AAD 1988 - 1993
- Visioning Committee of the AAD 1992
- National Psoriasis Foundation Tissue Bank Committee 1991 - current
- National Psoriasis Foundation, Chairman of the Medical Advisory Board, 1993 to current
- American Academy of Dermatology member Section of Health Policy, Practice, and Research, 1994-1998
- American Academy of Dermatology Chairman of Research Council, 1994-1999
- Chairman of Special Study Section of NIAMS for Skin Disease Research Centers, 11/8-10/93
- DeNovo Scientific Medical Advisory Board Dec 1994 to 1996
- Chairman of Special Study Section of NIAMS for grant review 9/25-26/94
- National Psoriasis Foundation, Non voting member of Board, 1994 to current (attend at least 2 Board meetings per year)
- Chairman for the Organizing Committee of the Leaders Society of the Dermatology Foundation 1997 to current.
- Site visit review of intramural research - Skin Branch of the NCI 9/30/97
- Co-Chair of PUVA Consensus Conference, WDC, 11/15-16/97
- Advisor to Skin Research Center, Case Western Reserve University, 7/1/98 to current.
- Chair of Special Study Section of NIAMS on Gene Therapy Aug 2001
- AAD Educational Summit Committee on Treatment for Psoriasis 2002 to current

MEMBERSHIP IN PROFESSIONAL SOCIETIES - ACTIVE:

- American Federation for Clinical Research
- Society for Investigative Dermatology
- American Academy of Dermatology
- Intermountain Dermatology Society
- American Society of Clinical Investigation
- American Dermatologic Association
- American Society for Gene Therapy
- National Psoriasis Foundation

COMMITTEES : UNIVERSITY COMMUNITY ACTIVITIES

(not complete - selected - from 7/1/93)

- Promotion Retention Tenure Committee - Three year term
- Search Committee - Dean, College of Pharmacy
- Promotion Retention Tenure Committee - A second three year term, August 1995 to July 1998

INVITED PRESENTATIONS: UNIVERSITY COMMUNITY ACTIVITIES

(not complete - selected)

1. CIRD Symposium, France, October 1983.
2. Toxicology Meetings, Stockholm, Sweden, 1985.
3. Skin Pharmacology Society Meeting, Boston, MA, August, 1985
4. American Academy of Dermatology, Chairman, Psoriasis Symposium, Las Vegas, NV December 1985.
5. CIRD Symposium, France September 1986.
6. 5th Korea-Japan Joint Meeting of Dermatology, Chonju Island, Korea, November 1987.
7. American Academy of Dermatology, Chairman, Psoriasis Symposium, December 1986 (New Orleans), 1987 (San Antonio), 1988 (Washington DC).
8. Advances in Psoriasis Treatment---A Continuum symposium, lecture " Biology of Psoriasis" 10/26-27/90, Santa Barbara, Ca.
9. Workshop on Linkage Analysis of Hereditary Skin Diseases; Lecture " Genetics of Psoriasis, an Update" 4/22-24/90, U of CA SF.
10. Derm 2000 lecture " Cytokines in skin disease" 5/22-26/90 London England.
11. Snowbird continuing education conference for PAs and Nurse practitioners, Aug 1990.
12. Dermatology Symposium--Kaiser Permanente 10/27/90 " Trade vs Generic Therapy--Real or Perceived Problems" Newport Beach Ca.
13. In vitro - Alternatives to topical testing Johns Hopkins University 4/3/91
14. Hair loss and the primary care physician, UUMC Int Med Conf, Snowbird, Ut. 7/8/91
15. Experimental models, 5th Psoriasis Conference, San Francisco, Ca 7/11/91
16. Models systems using human skin, @ 2nd topical workshop AAPS / FDA 12/3/91
17. Immunology of psoriasis @ basic immunology course AAD 12/8/91
18. Recalcitrant Psoriasis, an approach to management AAD 12/9/91
19. Home UVB debate - Yea or Nay, AAD 12/11/91
20. Bone Marrow Transplant --Dermatologists delight vs dilemma, Winter Skin Seminar 2/10/92
21. Gene Therapy, using cells of the skin, where are we? Winter Skin Seminar Aspen, CO 1/93.
22. Therapy for psoriasis via case studies, Winter Skin Seminar, Aspen, CO 1/93.
23. Psoriasis 1993 @ the Update in Internal Medicine - 1993, Park City, UT. Sponsored by the Dept of Med UHSC.
24. Use of Genetically Modified skin to treat disease -- Potential vs. Limitations; Cutaneous Biology Symposium; July 1993, @ Aspen CO.
25. Pitfalls in Skin Disease and the Primary Care Giver -- How to Avoid Them, Physician Assistant and Nurse Practitioner Course, Snowbird UT, August 1993.
26. How I Treat Palmar / Plantar Psoriasis, American Academy of Dermatology Dec 1993.

27. Cutaneous Pain Syndromes, Winter Skin Colloquium, West Palm Beach, FL Jan 1994.
28. Cutaneous Pain Syndromes, Winter Skin Seminar, Vail, CO Feb 1994.
29. Retinoids for psoriasis National Psoriasis Foundation Seminar, San Francisco, Apr 1994.
30. Calcipotriene for psoriasis National Psoriasis Foundation Seminar, San Francisco Apr 1994.
31. Chairman of special poster session on psoriasis, Soc. Invest. Derm. Mtg. Apr 1994
32. Site visit to National Psoriasis Foundation Tissue Bank May 1994
33. Chairman of Plenary session @ VI International Psoriasis Conference, Chicago IL, on Genes to Gene therapy, gave introduction and presentation on use of skin to correct disease.
34. Cutaneous Pain Syndromes @ Summer meeting of the American Academy of Dermatology 1994.
35. Rotational and combination therapies for moderate to severe psoriasis @ Systemic therapy for psoriasis, consensus conference, Deer Valley UT, 10/7-9/94
36. Newer topical therapies for mild to moderate psoriasis, @ Winter Skin Seminar 3/12-17/95.
37. Rotational and combination therapies for moderate to severe psoriasis, @ Winter Skin Seminar 3/12-17/95.
38. The use of genetically modified skin to treat disease: Feasibility studies, @ Third annual Weber Immunology Retreat, 6/24/95
39. Gene Therapy / Cells of the Skin / Potential --- Limitations, @ the Toronto Dermatology Society, Toronto, Ontario, 9/21-22/95.
40. Apoptosis - its significance in disease and therapeutic implications, @ Winter Skin Seminar, 1/15/96.
41. The use of genetically modified skin to treat disease, @ Winter Skin Seminar, 1/18/96
42. Psoriasis - Update on the pathogenesis and new and evolving treatments @ Winter Skin Seminar, 2/2/97
43. Problem Cases: Management Decisions @ Psoriasis Forum of the American Academy of Dermatology Convention, 3/21/97, San Francisco CA
44. Gene Therapy / Cells of the Skin / Potential @ class run by Pat Tresco in Bioengineering U of U, 5/9/97
45. Gene Therapy of Skin - the Challenge: Survival of Genetically Modified Cells in vivo @ Keystone Symposia Conference in Tissue Engineering 1/10/98 - 1/15/98, Copper Mountain Co
46. Update on Cutaneous Pain Syndromes, @ Winter Skin Seminar, 2/98
47. New Treatments for Skin Disorders: From Baldness to Eczema, @ Winter Skin Seminar, 2/98
48. Transgene expression by cells of the skin in vivo: Lessons learned. @ Wound Healing Society; Salt Lake City, 6/19/98

49. Targeting CD2 for immunotherapy: results of a phase 1b/2a trial with LFA3/IgG fusion proteint in moderate to severe psoriasis @ International Psoriasis Symposium, Milan Italy 9/2-5/98
50. Delivery of transgenes to the intact epidermis - the hope and the reality @ the Sixth International Conference on Perspectives in Percutaneous Penetration; Leiden, Netherlands 9/22-26/98
51. Update on cause and treatment of psoriasis for the American Skin Association @ the New York Academy of Sciences 10/7/98
52. The basis for the immunopathogenesis of psoriasis, FDA/CEBR, Oct 21-22, 1998 Washington DC
53. Research on psoriasis where is it going and what value is it, 30th Anniversary Gala Dinner of the National Psoriasis Foundation, New York City, 10/23/98
54. Chair panel discussion of psoriasis - meet the experts at patient meeting of the NPF on 10/24/98
55. Three talks, a) Update on topical and systemic treatment for psoriasis; b) Cutaneous Pain Syndromes; c) Update on the pathogenesis of psoriasis, Nov 6-7, 1998 for the New Mexico Dermatology Society
56. Update on treatments for psoriasis 9/17/99 Intermountain Dermatology Society, Sun Valley Idaho
57. Psoriasis therapy in the new millennium and their impact on other skin disease, Winter Skin Seminar, Snowbird UT Jan 31, 2000
58. Fibroblasts and dermal gene therapy, at the NIAMS sponsored workshop Cutaneous Gene Therapy: Problems and Prospects, March 23 - 24, 2000
59. An update on the pathogenesis of psoriasis, Tri-county Derm Society, Santa Barbara, CA April 24, 2000
60. Therapeutic considerations in the treatment of psoriasis, Tri-county Derm Society, Santa Barbara, CA April 24, 2000
61. An update on the pathogenesis of psoriasis, Wyoming Academy of Dermatology, Pinedale WY, June 16, 2000
62. Therapeutic considerations in the treatment of psoriasis, Wyoming Academy of Dermatology, Pinedale WY, June 16, 2000
63. Overview of new immune response modifiers to treat psoriasis: An example, treating psoriasis by inhibiting the CD2/LFA3 co-stimulatory pathway with Amevive, Japanese Society for Psoriasis Research, Fukushima, Japan Sept 6-10, 2000
64. " My chair-raising experience" for Fund Raising 101 1/12/01
65. 10 Top Advances @ Winter Skin Seminar Jan 31/Feb 1, 2001
66. Psoriasis – a T cell mediated disease: three approaches to treatment March 16 and May 25, 2001 (2 parts) to dermatology staff, Univ of Utah
67. New treatment approaches to psoriasis: the emerging importance of pharmacogenomics, National Psoriasis Foundation Genetics Consortium Meeting in Stockholm, May 18, 2001.
68. Presentations at May 2001 SID, 4 posters and 1 platform presentation

69. Presentations / activities at June International Psoriasis Symposium June 2001, 3 posters, 3 platform presentations, chair one satellite symposium and chair 2 plenary sessions.
70. "Immunomodulatory agents for psoriasis Summer AAD in Anaheim CA July 31, 2001.
71. "Mechanism of action of topical glucocorticosteroids in skin disease" for CME article that is to be generated from a educational grant by Connetics to Synermed, Denver CO, Aug 4 and 5, 2001.
72. Two presentations, New biologics for the treatment of psoriasis and Psoriasis case studies at the National Psoriasis Foundation Chief Resident Meeting San Antonio Tx Sept 8-9, 2001.
73. The challenge of using genetically modified fibroblasts a vehicle for gene therapy, at the Gene Therapy Conference sponsored by the ESDR, Uppsala Sweden, Sept 18-20, 2001.
74. "Psoriasis therapies: assessment of endpoints, Tularik Inc So San Francisco, Oct 8, 2001.
75. "Alefacept phase III trial, IV component, for psoriasis" at a satellite symposium of the EADV Oct 11, 2001, Munich Germany.
76. "New pathogenesis driven treatment approaches for psoriasis", Medical Grand Rounds Oct 18, 2001. Univ of Utah.
77. "New effective and available treatments for psoriasis", invited lecture sponsored by Roche for dermatologists in Utah, Oct 18, 2001, SLC Utah.
78. Antisense in dermatology a new platform for treating diseases of the skin, invited lecture at the Weston Fest a series of lectures by colleagues and trainees of W L Weston at his retirement Nov 3, 2001.
79. Antisense – an emerging platform to genome base therapy, invited lecture at the American Dermatologic Association meeting Nov 10, 2001.
80. Methods for assessment of response to treatment in patients with psoriasis – emphasis on PASI, Enbrel® Investigators meeting Miami Beach, FL Dec 8, 2001.
81. Methods for assessment of response to treatment in patients with psoriasis – emphasis on PASI, Serono Investigators meeting Los Angeles Dec 6, 2001.
82. Methods for assessment of response to treatment in patients with psoriasis – emphasis on PASI, Serono Investigators meeting Prague CZ Dec 12, 2001.
83. "Immunomodulatory therapy for skin disease: rationally based targets, psoriasis as the prototype," an invited presentation for the first internet conference entitled "International Pharmacology Dermo Therapy in Rome Dec 15, 2001 access via web site www.dermo-therapy.com
84. Gene Therapy from Hype to Hope to Despair to Hope, Winter Skin Seminar 1/27/02.
85. Selected Update on Psoriasis: Genes to New Rx Winter Skin Seminar 1/29/02.
86. New biologics for skin disease: mechanism of action to pathogenesis of disease, AAD New Orleans 2/23/02.

87. Management of Difficult Patients @ Psoriasis Symposium AAD New Orleans 2/25/02.
88. Overview for Therapeutics Session of the SID, 5/17/02.
89. Chaired and gave presentation on Potential of Use of Genetically Modified Fibroblasts to Treat Disease to Session of the American Society for Gene Therapy meeting in Boston 6/5/02.
90. Two presentations 1. What is happening inside, understanding the immune system and new treatments for psoriasis and 2, Current systemic treatments for psoriasis; National Psoriasis Foundation Patient Conference Orlando FL, Aug 10-11, 2002.
91. A new era: rationally based treatments for inflammatory skin disease: Psoriasis as the prototype; Intermountain Dermatology Meeting, Sun Valley Idaho Sept 20, 2002.
92. New biologics for the treatment of psoriasis; National Psoriasis Foundation Chief Resident Meeting La Jolla CA, Sept 21, 2002.
93. Systemic Rx for Psoriasis Old and What is Coming, American College of Rheumatology, New Orleans Oct 28-29, 2002.
94. Alefacept for Psoriasis, at the Educational Summit of the American Academy of Dermatology, Nov 1-3, 2002.
95. Gene Therapy Using Cells of the Skin at the Dermatology Foundation/Unilever Symposium Nov 10-11, 2002.

VISITING PROFESSORSHIPS : UNIVERSITY COMMUNITY ACTIVITIES (1983 to present)

1. University of Colorado School of Medicine, Department of Dermatology, Denver, Colorado, March 1983.
2. University of Illinois College of Medicine, Department of Dermatology, Chicago, IL, May 1983.
3. Allergan/Herbert Laboratories, Division of Research and Development, Irvine, CA, August 1983.
4. University of Michigan Medical School, Department of Dermatology, Ann Arbor, MI, March 1984.
5. Columbia Presbyterian Hospital, Department of Dermatology, New York, NY, November 1984.
6. Rydelle Laboratories Lectureship, Department of Dermatology, University of California at San Francisco, San Francisco, CA, December, 1984.
7. University of Illinois Medical School, Department of Dermatology, Chicago, IL, March 1985.
8. Uniformed Services University of the Health Sciences, Departments of Medicine And Pharmacology, Bethesda, MD, October 1985
9. Ortho Pharmaceutical Corporation, Division of Clinical Research, Raritan, New Jersey November, 1985.
10. Procter and Gamble Lectureship, University of Cincinnati Medical Center, Department of Dermatology, Cincinnati, Ohio, January, 1986.

11. Rydelle Laboratories Lectureship, Division of Dermatology, UCLA School of Medicine, Los Angeles, CA, March, 1986.
12. Roche Laboratories Visiting Lectureship, Department of Medicine, University of Louisville, Louisville, KY, April 1986.
13. Howard Fox Guest Lectureship, Department of Dermatology and Skin and Cancer Unit, New York University Medical Center, New York, NY, May 1986.
14. Roche Laboratories Visiting Lectureship, Department of Dermatology, University of Iowa, Iowa City, IA, November, 1986.
15. University of California at San Francisco, Department of Dermatology, San Francisco, CA, January, 1987.
16. Harvard University Medical School, Department of Dermatology, Boston, MA, April 1987.
17. Yale University Medical School, Department of Dermatology, New Haven, CT, May 1988.
18. New Mexico Dermatology Society, Santa Fe, New Mexico, September 1988.
19. Columbia University School of Medicine, Department of Dermatology, New York, NY, April 5-7, 1989.
20. University of Colorado / Colorado Dermatologic Society, Denver, Colorado, June 1989.
21. Univ of Minnesota 3/13-24/90 " What treatment has told us about the pathogenesis of psoriasis" .
22. Univ of Pittsburgh June, 1990 Psoriasis treatment, an update.
23. Univ of Calif San Diego, Aug 1990 Retinoids in malignant and premalignant skin conditions.
24. Univ of Colorado, 11/6/90 " Applied aspects of cutaneous pharmacology" .
25. Univ of Texas Southwestern, 4/22-23/91 " Immunology of psoriasis and topic of choice" .
26. Emory Univ / Atlanta Dermatologic Assoc - Quarterly Meeting (8/92) Harold Melter lectureship; 1. Psoriasis Rx, 2. BMT TX, 3. Topical Pharmacology.
27. Mount Sinai College of Medicine (10/92) " Treatment of Psoriasis; Pathogenesis of Psoriasis, Current Concepts" .
28. University of Illinois Dept of Biochemistry, " The Challenge of Gene Therapy Using Cells of the Skin" , Jan 27 - 28, 1997.
29. Mount Sinai College of Medicine, Department of Dermatology, " Cutaneous Pain Syndromes" , and " Immunopathogenesis of psoriasis" Feb 27, 1997.
30. Stanford University Dept of Dermatology 1. " Treatment of Psoriasis; Pathogenesis of Psoriasis, Current Concepts" , 2. " Cutaneous Pain Syndromes" . May 13, 1997.
31. Case Western Reserve Department of Dermatology, review of Center Grant, Nov 24, 1998.
32. UCLA Two lectures dinner meeting "New Treatment Options for Psoriasis" formal grand rounds Psoriasis - How Advances in Understanding are Leading to New Treatments, August 7 and 8, 2000.

33. University of Colorado two lectures: The challenges and opportunities of using genetically modified fibroblasts in gene therapy; An update on the pathogenesis and therapeutic considerations in the treatment of psoriasis, Denver CO, Oct 2, 2000.
34. Univ of Southern Calif, April 11, 2001, Considerations in and an update of treatment for psoriasis.
35. Loma Linda University, April 12, 2001, Considerations in and an update of treatment for psoriasis.
36. New York University, June 1, 2001, Use of genetically defined skin to treat skin disease; Focus: genetically modified fibroblasts.
37. Univ of Oregon April 3, 2002, New Era Immunomodulatory therapies, Ps and PsA as the prototype.
38. Univ of Colorado May 6, 2002, New Era Immunomodulatory therapies, Ps and PsA as the prototype.
39. Mt Sinai University, NYC May 29, 2002, Two presentations: New Era Immunomodulatory Therapies for Skin Disease and Selected Update on Psoriasis: Genes to New Rx.
40. Loma Linda University Sept 3, 2002 Immunomodulatory Therapies for Skin Disease: Psoriasis as the Prototype.
41. University of Cincinnati Oct 9-10, 2002 Immunomodulatory Therapies for Skin Disease: Psoriasis as the Prototype.
42. University of California San Francisco Oct 22-23, 2002 Immunomodulatory Therapies for Skin Disease: Psoriasis as the Prototype.
43. University of Louisville Oct 31-Nov 1, 2002 Immunomodulatory Therapies for Skin Disease: Psoriasis as the Prototype.
44. Johns Hopkins University Nov 3-4, 2002 Immunomodulatory Therapies for Skin Disease: Psoriasis as the Prototype.
45. University of Alabama Nov 12-13, 2002 Immunomodulatory Therapies for Skin Disease: Psoriasis as the Prototype and Gene Therapy Using Cells of the Skin.

UNIVERSITY COMMUNITY ACTIVITIES (1994 to present) Not Lectures

- Lobby for NIAMS funding -- testimony to Senator Harker's committee 3/2/94 on behalf of AAD.
- Lobby for NIAMS funding -- multiple visits to Capitol Hill to Congressional Staff 3/7/94 on behalf of AAD.
- Testimony to House Appropriations Subcommittee Chairman Porter R Illinois, 1/24/95 on behalf of AAD
- Participant in founding of the Coalition Council for Research in Dermatology 1/23/95 on behalf of AAD
- Co-Chair for lobbying effort for NIAMS funding -- multiple visits to Capitol Hill to Congressional Staff 1/20/96 -- 4/15/96 on behalf of specialties and patient advocate groups represented in the NIAMS.
- **Project Awareness for Dermatology Foundation**
 - Loma Linda Univ May 2001

- Univ Oregon, April 2002
- Derm Resident Retreat June 2002
- Case Western Reserve July 2002
- University of Cincinnati October 2002
- University of Louisville October 2002
- Johns Hopkins University November 2002
- University of Alabama November 2002
- SUNY Brooklyn June 2003
- Wake Forrest June 2003

CONSULTANT (from June 1990)

- FDA, Aug 1990
- Marrow-Tech, Aug 1990
- CFTA, Sept 1990
- Iomed, Feb 1991
- Chiron, April 1991
- Abbott, May 1991
- Schering, July 1991
- Kolomar, Nov 1991
- Steifel, Nov 1991
- NIH NIAMS, Therapeutic trials panel Jan 1992
- Biogen, Jan 1992
- Reed Carnrick April 1992
- Sandoz May 1992
- Allergan Herbert Sept 1992
- Bristol Meyers/Squibb Oct 1992
- Smith Kline/Beecham Nov 1992
- Genta June 1992 to 1996
- Biogen Inc., Mar 1993
- UniLever Apr 1993
- Genta, Jan - June 1995
- Procter and Gamble, July 1995
- UniLever @ Bedford, UK Oct 1995
- Merck Research, Dec 1995
- DUSA, 1996 to current
- Ciba/Geigy July 1996
- Sandoz June 1996
- Abgenix 1997 to 1999
- Procter and Gamble July 1998
- FDA/CEBR Oct 1998

LONG TERM / RETAINED / SHAREHOLDER / CONSULTANT

- Smith Kline/Beecham Consultant on intermittent basis 1992 to 1997
- PeneDerm, Scientific Medical Advisory Board, May 1990 to 1996
- TheraTech 1996 to current
- Dermigen Scientific Advisory Board Feb 1997 to 2000
- Biogen 1997 to current
- Vertex August 1996 to current
- Xcyte Therapies Inc (formerly CDR) Consultant (Shareholder) 1996 to current
- Connetics Nov 98 to current
- ZARS March 99 to current
- Abgenix Jan 1999 to current
- 'elan Aug 1999 to 2000
- Fujisawa Healthcare June 2000 to current
- Isis (Retainer) Sept 1999 to 2002
- Isis 2002 to current
- Berlex Jan 2000 to current
- DermTech International Dec 2000 to current
- Gerson Lehrman Mar 2000 to current
- PowderJect Mar 2001 to current
- Amgen / Immunex / Wyeth-Ayrest Feb 2001 to current
- Glaxo-SmithKline Feb 2001 to current
- Serono Oct 2001 to current
- SkyePharma Feb 2002 to current
- Centecor April 2002 to current
- MedaCorp June 2003 to current
- Boehringer Ingleheim May 2003 to current

TEACHING RESPONSIBILITIES

- Physical Diagnosis of Skin, 100 second year medical students each year 1972 - 1992
- Skin Research elective for 4th year medical students 2 / year
- Clinical Dermatology for 4th year medical students (30 / year) and internal medicine residents (12 / year) in 4 clinics per week.
- Ward and Clinic attending for dermatology residents
- Four clinics per week -- average of 1 resident and 2 students per clinic

THESIS COMMITTEE (NOT A COMPLETE LIST)

Jen Yu Wie, 1987, Dept of Physiology
Scott W Smith, 1992, Dept of Pharmaceutics
Steve Geigy, 1995, Dept of Toxicology
Sharon Cahoon 1996, Dept of Anatomy
Deanna Hubbard 1998, Dept of Toxicology

POST DOCTORAL BASIC AND CLINICAL RESEARCH FELLOWS

1. Amos Gilhar MD 1986 – 1988: Project = Studies on Alopecia Areata; Now on faculty at Technology Institute, Haifa, Israel.
2. Kenneth J Miller II PhD 1991- 1993: Project = Proof of Principle Studies of Antisense Oligonucleotides Applied Topically to Human Skin. He left to become Senior Scientist @ Noven Pharmaceuticals, then joined the Dept of Derm of Univ of Arkansas and most recently joined Bertack Pharmaceuticals.
3. Linda Lieb PhD 1994 – 1996: Project = Definition of Pathway of Absorption of Large Molecules When Applied to Hair Bearing Human Skin Junior. She was on the Faculty Dept of Derm Univ of Utah for 1.5 years and now is at Fujisawa Pharmaceuticals.
4. Margarita O' Reilly 1995 – 1997: Project = Clinical Trials Research Fellow; currently in residency in Dermatology Univ of Utah.
5. Payam Tristani MD 1997-1999: Project = Clinical Trials Research Fellow; currently in residency in Dermatology Univ of Utah
6. Kappa Meadows MD 1999-2000: Project = Assessment of the Utility of Using Genetically Modified Langerhans Cells to Correct Disease; she will leave to enter practice in Virginia in July of 2000
7. Michael Gifford MD 1999 – 2000: Project = Clinical Trials Research Fellow; he will leave to enter residency in dermatology at the Univ of Michigan in July of 2000
8. Jeff McKenna MD 1999-2000: Project = Effect of Locally Generated Heat on Permeation of Drugs Into Human Skin: he will enter residency in dermatology at the Univ of Utah
9. Kristina Callis MD 2000-2002: Project = Clinical Trials Research Fellow
10. Christopher B Hansen MD 2002-2003: Project = Utah Psoriasis Initiative
11. Christopher Carlin MD 2002-2003: Project = Clinical Trials Research Fellow
12. Julie A Maughan MD 2003-2004: Project = Clinical Trials Research Fellow
13. Jason Papenfuss MD 2003-2005: Clinical Research Fellow, Project = Phenotyping for UPI
14. Clive Liu MD 2003-2004: Clinical Research Fellow, Project = Evaluation of EGIR and hair roots for message as a function of diagnosis and response to treatment
15. Mark Herron MD 2003-2004: Clinical Research Fellow, Project = Assessment of obesity on psoriasis

PUBLICATIONS, PEER REVIEWED

1. Nelson JC, Krueger GG, Wilcox RB, Thompson W: The effect of radiocontrast media on the measurements of adrenal steroids in urine. J Endo Metab 28:1515-1517, 1968.

2. Krueger GG, Molk L, Kahn G: The exacerbation of atopic eczema by retinoic acid. *Arch Dermatol* 105:405-406, 1972.
3. Weston WL, Mandel JM, Krueger GG, Claman NH: Differential suppression of macrophages and lymphocytes by cortisol in tuberculin skin reactions. *J Invest Dermatol* 59:345-348, 1972.
4. Koehn G, Thorne EG, Krueger GG, Weston WL: Urticaria in HAA positive hepatitis. *Cutis* 10:705-708, 1972.
5. Mandel MJ, Carr RI, Weston WL, Krueger GG, et al: Anti-native DNA antibodies in discoid lupus erythematosus. *Arch Dermatol* 106:668-670, 1972.
6. Krueger GG, Weston WL, Mandel MJ, Kahn G: IgE levels in nummular eczema. *Arch Dermatol* 107:56-58, 1973.
7. Krueger GG, Weston WL, Thorne EG, Mandel MJ, Jacobs RJ: A phenomenon of macrophage aggregation activity in sera of patients with exfoliative erythroderma, erythema multiforme, and erythema nodosum. *J Invest Dermatol* 60:282-285, 1973.
8. Weston WL, Krueger GG, Claman NH: Site and mechanism of action of cortisol in cell-mediated immune response. *J Immunol* 110:880-883, 1973.
9. Weston WL, Krueger GG, Mandel MJ, Yeckley JA, Claman HN: Mechanism of cortisol inhibition of adoptive transfer of tuberculin sensitivity. *J Lab Clin Med* 82:366-371, 1973.
10. Manning DD, Krueger GG: Use of cyanoacrylate cement in skin grafting congenitally athymic (nude) mice. *Transplantation* 18:380-383, 1974.
11. Yeckley G, Weston WL, Thorne EG, Krueger G: Production of Sezary-like cells from normal human lymphocytes. *Arch Dermatol* 111:29-32, 1975.
12. Krueger GG, Manning DD, Malouf J, Ogden B: Long-term maintenance of psoriatic human skin on congenitally athymic (nude) mice. *J Invest Dermatol* 64:307-312, 1975.
13. Christian G, Krueger GG: Clindamycin versus placebo as adjunctive therapy in moderately severe acne. *Arch Dermatol* 11:997-1000, 1975.
14. Krueger GG, Ogden BE, Weston WL: In vitro quantitation of cell-mediated immunity by nitroblue tetrazolium (NBT). *Clin Exp Immunol* 23:517-524, 1976.
15. Zirker DW, Krueger GG, Meikle AW: Percutaneous absorption of dexamethasone estimated by a plasma radioimmunoassay. *J Invest Dermatol* 66:376-378, 1976.
16. Voorhees JJ, Chambers DA, Duell EA, Marcelo CL, Krueger GG: Molecular mechanisms in proliferative skin disease. *J Invest Dermatol* 67:442-450, 1976.
17. Krueger GG, Bray PF: Familial localized panatrophs: An iatrogenic phenocopy secondary to steroid injection. *J Pediatr* 89:682-683, 1976.

18. Hill HR, Williams PB, Krueger GG, Janis B: Recurrent staphylococcal abscesses associated with defective neutrophil chemotaxis and allergic rhinitis. *Ann Intern Med* 85:39-43, 1976.
19. Spruance SL, Overall JC Jr, Kern ER, Krueger GG, Pliam V, Miller W: The natural history of recurrent herpes simplex labialis. Implications for antiviral therapy. *N Engl J Med* 287:69-75, 1977.
20. Sontheimer RD, Garibaldi RA, Krueger GG: Stevens-Johnson syndrome and its association with *Mycoplasma pneumoniae* infections. *Arch Dermatol* 114:241-244, 1978.
21. Krueger GG, Hill HR, Jederberg WW: Inflammatory and immune cell function in psoriasis - a subtle disorder. I. In vivo and in vitro survey. *J Invest Dermatol* 71:189-194, 1978.
22. Krueger GG, Jederberg WW, Ogden BE, Reese DL: Inflammatory and immune cell function in psoriasis. II. Monocyte function, lymphokine production. *J Invest Dermatol* 71:195-201, 1978.
23. Barbour AG, Krueger GG, Feorino PM, Smith CB: Kawasaki-like disease in a young adult. Association with primary Epstein-Barr virus infection. *JAMA* 241:397-398, 1979.
24. Ogden BE, Krueger GG, Hill HR: Lymphocyte suppressor activity in atopic eczema. *Clin Exp Immunol* 35:269-275, 1979.
25. Spruance SL, Krueger GG, MacCalman J, Overall JC Jr, Klauber MR: Treatment of recurrent herpes simplex labialis with levamisole. *Antimicrob Agents Chemother* 15:662-665, 1979.
26. Krueger GG, Jederberg WW: Alteration of HeLa cells growth equilibrium by supernatants of peripheral blood mononuclear cells from normal and psoriatic subjects. *J Invest Dermatol* 74:148-153, 1980.
27. Olmstead AD, Zone JJ, LaSalle BA, Krueger GG: Immune complexes in the pathogenesis of hypergammaglobulinemic purpura. *J Am Acad Dermatol* 3:174-179, 1980.
28. Krueger GG, Chambers DA, Shelby J: Epidermal proliferation of nude mouse skin, pig skin, and pig skin grafts: Failure of nude mouse skin to respond to the tumor promoter 12-O-tetradecanoyl phorbol 13-acetate (TPA). *J Exp Med* 152:1329-1339, 1980.
29. Huff JC, Krueger GG, Overall JC Jr, Copeland J, Spruance SL: The histopathological evolution of recurrent herpes simplex labialis. *J Am Acad Dermatol* 5:550-557, 1981.
30. Gurish MF, Roberts LK, Krueger GG, Daynes RA: The effect of various sunscreen agents on skin damage and the induction of tumor susceptibility in mice subjected to ultraviolet irradiation. *J Invest Dermatol* 76:246-251, 1981.

31. Grant JA, Findlay SL, Thueson DO, Find DP, Krueger GG: Local heat urticaria: Evidence for histamine release without complement activation. *J Allergy Clin Immunol* 67:75-77, 1981.
32. Krueger GG, Shelby J: Biology of human skin transplanted to the nude mouse. I. Response to agents which modify epidermal proliferation. *J Invest Dermatol* 76:506-510, 1981.
33. Krueger GG, Chambers DA, Shelby J: Involved and uninvolved skin from psoriatic subjects: Are they equally diseased? Assessment by analysis of skin transplanted to congenitally athymic (nude) mice. *J Clin Invest* 68:1548-1557, 1981.
34. Eyre RW, Krueger GG: Interrelations of the skin's response to injury and disease activity in psoriasis. *Br J Dermatol* 106:153-159, 1982.
35. Krueger GG, Chambers DA, Stubbs JD, Jederberg WW, Torres AR: Psoriasis - A multifactorial disease. A role for humoral factors. *J Lab Clin Med* 99:275-287, 1982.
36. Dicken CH, Bauer DA, Hazen PG, Krueger GG et al: Isotretinoin treatment of Darier's disease. *J Am Acad Dermatol* 6:721-726, 1982.
37. Richens G, Piepkorn MW, Krueger GG: Calcifying panniculitis associated with renal failure. *J Am Acad Dermatol* 6:537-539, 1982.
38. Torres AR, Krueger GG, Peterson EA: Two-dimensional gel electrophoresis can be used to examine chromatographic effluent fractions from displacement column chromatography. *Clin Chem* 28:998-888, 1982.
39. Daynes RA, Spangrude GJ, Roberts LK, Krueger GG: Regulation by the skin of lymphoid cell recirculation and localization properties. *J Invest Dermatology* 85:14s-20s, 1985.
40. Rom WN, Krueger G, Zone J et al: Morbidity survey of U.S. oil shale workers employed during 1948-1969. *Arch Environ Health* 40:58-62, 1985.
41. Roberts LK, Spangrude GJ, Daynes RA, Krueger GG: Correlation between keratinocyte expression of Ia and the intensity and duration of contact hypersensitivity responses in mice. *J Immunol* 135:2929-2936, 1985.
42. Petersen MJ, Krusinski PA, Krueger, GG: Evaluation of 1% clindamycin phosphate lotion in the treatment of acne: Comparison with 1% clindamycin phosphate solution and lotion placebo. *Curr Therapeut Res* 40(1): 232-238, 1986.
43. Lee LA, Weston WL, Krueger GG, Emam M, Reichlin M, Stevens JO, Surbrugg SK, Vasil A, Norris DA: An animal model of antibody binding in cutaneous lupus. *Arth Rheum* 29:782-783, 1986.
44. Das M, Asokan P, Don PSC, Krueger GG, Bickers BR, Mukhtar H: Carcinogen metabolism in human skin grafted onto athymic nude mice: A model system for the study of human skin carcinogenesis. *Biochem Biophys Res Comm* 138:33-39, 1986.

45. Gilhar A, Wojciechowski ZJ, Piepkorn MW, Spangrude GJ, Roberts LK, Krueger GG: Description of and treatment to inhibit the rejection of human split-thickness skin grafts by congenitally athymic (nude) rats. *Expl Cell Biol* 54:263-274, 1986.
46. Gilhar A, Krueger GG: Hair growth in scalp grafts from patients with alopecia areata and alopecia universalis grafted onto nude mice. *Arch Dermatol* 123:44-50, 1987.
47. Wojciechowski Z, Pershing LK, Huether S, Leonard L, Burton SA, Higuchi WI, Krueger GG: An experimental skin sandwich flap on an independent vascular supply for the study of percutaneous absorption. *J Invest Dermatol* 88:439-446, 1987.
48. Gammon WR, Krueger GG, Van Scott EJ: Intermittent short courses of clobetasol propionate ointment 0.05% in the treatment of psoriasis. *Curr Ther Res* 42(3): 419-427, 1987.
49. McBride PT, Clark L, Krueger GG: Evaluation of triacontanol-containing compounds as anti-inflammatory agents using guinea pig models. *J Invest Dermatol* 89:380-383, 1987.
50. Reichman RC, Oakes D, Bonnez W, Greisberger C, Tying S, Miller L, Whitley R, Carveth H, Weidner M, Krueger G, Yorkey L, Roberts RJ Jr, Dolin R: Treatment of condyloma acuminatum with three different interferons administered intralesionally. *Ann Int Med* 108:675-679, 1988.
51. Pershing LK, Huether S, Conklin RL, Krueger GG: Cutaneous blood flow and percutaneous absorption: A quantitative analysis using a laser Doppler velocimeter and blood flow computer. *J Invest Dermatol* 92:355-359, 1989.
52. Merrell SW, Shelby J, Saffle JR, Krueger GG, Navar PD, An in vivo test of viability for cryopreserved human skin. *Curr Surg* 43:296-300, 1986.
53. Jun BD, Krueger GG, Roberts LK: Differential expression of Ia by murine keratinocyte and gut epithelium in response to recombinant gamma-interferon. *J Invest Dermatol* 93:33-39, 1989.
54. Gilhar A, Etzioni A, Krueger GG, Hair growth in human split-thickness grafts transplanted onto nude rats: the role of cyclosporin, *Dermatologica* 181:117-121, 1990.
55. Katz HI, Prawer SE, Medansky RS, Krueger GG, Mooney JJ, Jones ML, Samson CR: Intermittent corticosteroid maintenance treatment of psoriasis: A double-blind multicenter trial of augmented betamethasone dipropionate ointment in a pulse dose treatment regimen. *Dermatologica* 183:269-274, 1991.
56. Reichman RC, Oakes D, Bonnez W, Brown D, Mattison HR, Bailey-Farchione A, Stohler MH, Trying SK, Miller L, Whitley R, Carveth H, Weidner M, Krueger GG and Choi A: Treatment of condyloma acuminatum with three different interferon-

- alpha preparations administered parenterally: A double blind, placebo-controlled trial. *J Infect Dis* 162:1270-1276, 1990.
57. Spruance SL, Freeman DJ, Stewart JCB, McKeough MB, Wenerstrom GL, Krueger GG, Piepkorn MW, Stroop WG, and Rowe NH, The natural history of ultraviolet radiation-induced herpes simplex labialis and response to therapy with peroral and topical formulations of acyclovir. *J Infect Diseases*; 163:728-743, 1991.
 58. Pershing LK, Silver BS, Krueger GG, Shah VP, Skelly JP, Feasibility of measuring the bioavailability of topical betamethasone dipropionate in commercial formulations using drug content in skin and a skin blanching bioassay. *Pharmaceutical Research* 9:45-51, 1992.
 59. English KB, Stayner N, Krueger GG, Tuckett, RP, Tactile sensation in skin equivalent grafts, *Experimental Neurology*; 115:104-108, 1992.
 60. English KB, Stayner N, Krueger GG, Tuckett, RP, Functional Innervation of cultured skin grafts, *J Invest Dermatol* 99:120-128, 1992.
 61. Ellis CN, Berberian B, Sulica VI, Dodd WA, Jarratt MT, Katz HI, Prawer S, Krueger GG, Rex IH, Wolf JR, A double blind evaluation of topical capasciin in pruritic psoriasis, *J Am Acad Dermatol* 29:428-434, 1993.
 62. Rallis TM, Bakhtain S, Pershing LK, Krueger GG, A double-blind paired comparison efficacy and safety study of a retinoic acid formulation and a vehicle control in patients with Bateman's senile or actinic purpura, *Archives of Dermatology* 131: 493-495, 1995.
 63. Krueger GG, Pitcher C Liimatta AP, Knapp TL, Miller KJ II, Wilkins DG, Rollins DE, Uptake of agents of the environment into human hair: use of amino acids as simulants of exposure vs. codeine, *J Cutaneous Medicine and Surgery* 1:66-73, 1996.
 64. Petersen M, Kaplan J, Morgan J, Jorgensen C, Li L-T, Schmidt L, Li H-L, Kwan M, Krueger G, Blood levels of human transferrin in athymic mice after transplantation of a dermal matrix containing genetically modified 3T3 cells *J Invest Dermatol* 104:171-176, 1995.
 65. Helm KF, Marks JG, Guzzo C, Krueger GG, Griffiths TW, Griffiths CEM, Topical auranofin ointment for the treatment of plaque psoriasis, *J Am Acad Dermatol*, 32:813-814, 1995.
 66. Wilkins D, Rollins DE, Seman J, Haughey H, Krueger GG, Foltz R, Quantitative analysis of codeine and its major metabolites in human hair by acetone-positive chemical ionization mass spectrometry: A clinical application, *J Analytical Toxicology* 19:269-274, 1995.
 67. Krueger GG, Jorgensen CM, Effects of serum from normal and psoriatic subjects on the proliferation of fibroblasts from involved and uninvolved skin of psoriatic patients, *J Cutaneous Medicine and Surgery* 1:196-202, 1997.

68. Rollins DE, Wilkins DG, Krueger GG, Codeine disposition in human hair after single and multiple doses, *Eur J Clin Pharmacol* 50:391-397, 1996.
69. Wilkins DG, Krueger GG, Rollins DE, Disposition of codeine in female human hair after multiple dose administration, *J Analytical Toxicology* 19:492-497, 1995.
70. Krueger GG, Jorgensen CM, In vitro induction of a psoriasis phenotype on normal keratinocytes by fibroblasts from involved and uninvolved sites of untreated psoriatic subjects *J Cutaneous Medicine and Surgery* 2:20-25, 1997.
71. Medalie DA, Eming SA, Tompkins RG, Yarmush ML, Krueger GG, Morgan JR, Evaluation of human skin reconstituted from composite grafts of cultured keratinocytes and human acellular dermis transplanted to athymic mice, *J. Invest. Dermatol.*, 107:121-127, 1996.
72. Lieb LM, Liimatta AP, Bryan RN, Brown BD, Krueger GG, Description of the intrafollicular delivery of large molecular weight molecules to follicles of human scalp *in vitro*, *Journal of Pharmaceutical Sciences* 86:1022-1029, 1997.
73. Weinstein GD, Krueger GG, Lowe NJ, et.al., Tazarotene gel, a new retinoid, for the topical treatment of psoriasis. Vehicle-controlled study of safety efficacy and duration of therapeutic effect, *J Am Acad Dermatol* 37:85-92, 1997.
74. Krueger GG, Drake LA, Elias PM, Lazarus GS, Lowe NJ, Weinstein GD, Lew-Kaya DA, The safety and efficacy of tazarotene gel, a topical acetylenic retinoid, in the treatment of psoriasis, *Arch Dermatol* 134:57-60, 1998.
75. Krueger GG, Jorgensen CM, Petersen MJ, Mansbridge JN, Morgan JR, Use of cloned genetically modified human fibroblasts to assess long-term survival *in vivo* *Human Gene Therapy*, 8:523-532, 1997.
76. Krueger GG, O'Reilly MA, Weidner MM, Dromgoole SH, and Killey FP, Comparative efficacy of once daily flurandrenolide tape versus twice daily diflorasone diacetate ointment in the treatment of psoriasis, *J Am Acad of Dermatol*, 38:185-90, 1998.
77. Miller KJ II, Krueger GG, Systemic vs. topical methotrexate delivery to and activity in blood, mouse skin, and human skin grafted to nude mice (on desk of KJ Miller).
78. Wilkins DG, Valdez AS, Krueger, GG and Rollins DE, Quantitative analysis of L-alpha-acetylmethadol, L-alpha-acetyl-n-normethadol and L-alpha-acetyl-n,n-dinormethadol in human hair by positive-ion chemical ionization mass spectrometry, *J Anal Toxicol* 21:420-6, 1997.
79. Dahl MV, Katz HI, Krueger GG, Millikan LE, Czernielewski, JM, Topical metronidazole maintains remissions of rosacea, *Arch. Dermatol.* 134:679-683, 1998.
80. Eming SA, Yarmush ML, Krueger GG, Morgan JR, Regulation of the spatial organization of mesenchymal connective tissue: Effects of cell-associated vs. secreted isoforms of PDGF, *Am J Pathol* 154:281-289, 1999.

81. Krueger GG, Jorgensen CM, Matsunami N, Morgan JR, Liimatta A, Petersen MJ, Persistent Transgene Expression and Normal Differentiation of Immortalized Human Keratinocytes *In Vivo*, *J Invest Dermatol* 112:233-239, 1999.
82. Egan EA, Rallis TM, Meadows KP, Krueger GG, Beclomethosone dipropionate nasal spray induced rosacea, *International J Dermatol* 38:133-134, 1999.
83. Egan EA, Rallis TM, Meadows KP, Krueger GG, Low dose oral methotrexate for recalcitrant palmoplantar dyshidrotic eczema, *J Am Acad Dermatol.* 40: 612-4, 1999.
84. Abrams JR, Lebwohl MG, Guzzo CA, ... Krueger GG, ... Kang S, CTLA4Ig-mediated blockade of T cell costimulation in patients with psoriasis vulgaris *J Clin Invest* 103:1243-1252, 1999.
85. Wilkins DG, Rollins DE, Valdez BS, Krueger GG, Cone EJ, A retrospective study of buprenorphine and norbuprenorphine in human hair after multiple doses, *Anal Toxicol* 23:409-415, 1999.
86. Medalie DA, Krueger GG, Morgan JR, Evaluation of changes evoked by cultured keratinocytes which over-express KGF in composite grafts transplanted to athymic mice (submitted for publication, 2000).
87. O' Reilly MA, Decker S, Krueger GG, Blood transfusions and psoriasis: is there a link? *Archives of Dermatology* 136:270-271, 2000.
88. Mason C, Krueger GG. Thioguanine for refractory psoriasis-a 4 year experience, *JAAD* 44:67-72, 2001.
89. Krueger GG, Koo J, Lebwohl M, Menter A, Stern RS, Rolstad T The Impact of Psoriasis on Quality of Life: Results of a 1998 National Psoriasis Foundation (NPF) Patient Membership Survey. *Arch Dermatol* 137:280-284, 2001.
90. Krueger GG, Feldman SR, Camisa C, Duvic M, Elder JT, Gottlieb AB, Koo J, Krueger, JG Lebwohl M, Lowe N, Menter A, Morison WL, Prystowsky JH, Shupack JL, Taylor JR, Weinstein GD, Barton TL, Rolstad T, Day RM; A Position Paper—Two considerations for Psoriasis Patients and Their Professional Care Providers: What Defines Mild, Moderate and Severe Psoriasis? What constitutes a Clinically Significant Improvement When Treating Psoriasis? *JAAD*, 43:280-285 2000.
91. Ellis CN and Krueger GG, Treatment of chronic plaque psoriasis by selective targeting of Memory-Effector T lymphocytes A Randomized Phase II Trial of Recombinant Human LFA-3/IgG₁ Fusion Protein (Alefacept), *N Engl J Med* 345:248-255, 2001.
92. Rollins DE, Wilkins DG, Krueger GG, Ausburger M, Mizuno A, O' Neal C, Borges CR, Slawson MH, Hair color bias in hair testing for codeine (submitted for publication 2001).
93. Meadows KP, Tristani-Firouzi P, Jorgensen CM, Tandeski T, Morgan JR, Petersen MJ, Takashima A, Krueger GG, Feasibility of using genetically modified

- Langerhans cells as a system to deliver transgenes to skin (under further proof of principle experiments).
94. Gill PS, Krueger GG, Kohan DE, Doxycycline-inducible retroviral expression of green fluorescent protein in immortalized human keratinocytes. *Experimental Dermatology* 11:266, 2002.
 95. Lebwohl M, Scher R, Washenik K, Krueger GG, Menter A, Koo J, Feldman SR, A Randomized, Double-Blind, Placebo-Controlled Study of the Safety and Efficacy of Clobetasol Propionate 0.05% Foam in the Treatment of Non-Scalp Psoriasis (submitted for publication 2001).
 96. Lowe NJ, Hickman J, Koo J, Krueger GG, Rafal ES and Weinstein GD, Once-daily oral alitretinoin (9-cis-retinoic acid) capsules in patients with severe plaque psoriasis: a dose-escalation, safety and pharmacokinetic study, (submitted for publication 2001).
 97. Carlin CS, Florell SR, Krueger GG Induction of dramatic hyperpigmentation in a patient with generalized lichen planus treated with re-PUVA, *J of Cutaneous Medicine and Surgery* 6:125-127, 2002.
 98. Weinstein GD, Koo JYM, Krueger GG, Lebwohl MG, Lowe NJ, Menter MA, Lew-Kaya DA, Sefton J, Walker PS, Gibson JR, Tazarotene cream in treatment of psoriasis: two multicenter, double blind, randomized, vehicle-controlled studies of the safety and efficacy of tazarotene cream 0.05% and 0.1% applied once daily for 12 weeks, (submitted for publication 2002).
 99. Carlin CS, Callis KP, Krueger GG, Acitretin and commercial tanning beds (re-TBuv): an effective treatment for psoriasis (accepted for publication, *Archives of Dermatology* 139:459-464, 2003.
 100. Gottlieb A, Matheson R, Lowe N, Krueger GG, Kang S, Goffe B, Feng A, Lebsack ME, Etanercept (Enbrel®) as monotherapy for the treatment of psoriasis, (submitted for publication 2002).
 101. Krueger GG, Ellis CN, Alefacept therapy is remittive for patients with chronic plaque psoriasis, *Brit J Dermatol* 148:784-788, 2003
 102. Krueger GG, Papp KA, Stough DB, Loven KH, Gulliver WP, Ellis CN, A randomized, double-blind, placebo-controlled phase III study evaluating efficacy and safety of two courses of alefacept in patients with chronic plaque psoriasis, *J Am Acad Dermatol*, 47:821, 2002.
 103. Krueger GG, Griffiths CEM, Ferguson J, Barker J, Sapadin AN, Evolution of a Dosage Regimen for Alefacept in Patients With Chronic Plaque Psoriasis: Results of Two Randomised, Double-Blind, Dose-Escalation Studies (submitted for publication 7/2002).

104. Kang S, Krueger GG, Tanghetti EA, Lew-Kaya D, Sefton J, Walker PS, Gibson JR, Tazarotene cream 0.1% for amelioration of the signs of facial photo-damage (Submitted for publication 8/2002).
105. Krueger GG, Callis KP, Potential of TNF inhibitors in psoriasis and psoriatic arthritis (In Press Arch Dermatol, 2003).
106. Carlin CS, Feldman SR, Krueger JG, Menter A, and Krueger GG, PASI 50: a clinically significant endpoint in the assessment of psoriasis (submitted for publication 2003).
107. Chen M, Krueger GG, Jorgensen CM, Atha T, Huang Y, Chan L and Woodley DT, Lawrence Chan, and David T. Woodley, Normal and Gene-Corrected Dystrophic Epidermolysis Bullosa Fibroblasts Alone Are Capable of Producing Type VII Collagen at the Dermal-Epidermal Junction (submitted for publication 2003).
108. Gordon KB, Koo JYM, Feldman SR, Menter A, Krueger GG Definitions of measures of effect of duration on psoriasis treatments, (submitted for publication 2003).

PUBLISHED ABSTRACTS

1. Weston WL, Krueger GG: Macrophage aggregation activity in erythrodermal serum. Clin Res 21:418, 1973.
2. Weston WL, Krueger GG: Erythroderma: A model for over-production of mediators of cellular immunity. Clin Res 21:484, 1973.
3. Krueger GG, Ogden, BE, Weston WL: In vitro quantitation of cell-mediated immunity by nitroblue tetrazolium (NBT). Clin Res 22:577, 1974.
4. Krueger GG, Manning D, Malouf J, Ogden B: Long-term maintenance of psoriatic human skin on congenitally athymic (nude) mice. Clin Res 23:90A, 1975.
5. Zirker DW, Krueger GG, Meikle AW: Percutaneous absorption of dexamethasone using a plasma-radioimmunoassay. Clin Res 23:91A, 1975.
6. Krueger GG, Jederberg WW, Ogden, BE: Selective *in vivo* immunosuppression in psoriasis. Clin Res 24:96A, 1976.
7. Ogden BE, Krueger GG: Enhanced activation of mononuclear cells from psoriatics, *in vitro* analysis by hexose monophosphate shunt activity (HMPS). Clin Res 24:133A, 1976.
8. Jederberg WW, Krueger GG: Inflammatory and immune cell function in psoriasis. III. Influence of normal and psoriatic sera on monocyte chemotaxis. Clin Res 25:146A, 1977.
9. Ogden BE, Krueger GG, Jederberg WW: Enhanced suppression of lymphocyte transformation by monocyte mediators (monokines) in psoriasis. Clin Res 25:19A, 1977.

10. Reese DL, Krueger GG, Jederberg WW: Chemotaxis of monocyte in psoriatic subjects undergoing photochemotherapy. Clin Res 25:101A, 1977.
11. Krueger GG, Jederberg WW: Depressed lymphokine production associated with depressed delayed type skin tests and monocyte activation in psoriasis. Clin Res 24:156A, 1977.
12. Krueger GG, Jederberg WW: Inhibition of monocyte (MO) chemotaxis with sera from the benign proliferation disorder, psoriasis. Clin Res 25:362A, 1977.
13. Krueger GG, Sampson MC, Herther K, Trump CK, Chambers DA: Auto radiographic analysis of epidermal proliferation of xenogeneic skin grafts on nude mice. Clin Res 25:283A, 1977.
14. Sontheimer RD, Krueger GG, Chapman HA, Meikle AM, West CD: Adrenal androgen over-responsiveness to ACTH in females with severe acne without evidence of 11 or 21 hydroxylase deficiency. Clin Res 25:287A, 1977.
15. Krueger GG, Jederberg WW: Proliferation inhibitory factor in psoriasis. Clin Res 26:103A, 1978.
16. Ogden BE, Krueger GG, Hill HR: Leukocyte function in atopic eczema. Clin Res 26:123A, 1978.
17. Hawkins GE, Madsen JH, Krueger GG: Intracutaneous cornifying epithelioma (keratoacanthoma): An animal model? Its genetics and the effects of retinoic acid. Clin Res 27:18A, 1979.
18. Jederberg WW, Krueger GG: Mitogenic factor production by antigenically stimulated peripheral blood mononuclear cells. Psoriasis versus normal. Clin Res 27:80A, 1979.
19. Jederberg WW, Krueger GG: Chemiluminescence by human peripheral blood monocytes responding to phagocytized and non-phagocytized material. Clin Res 27:80A, 1979.
20. Krueger GG, Jederberg WW: Monocyte function in patients with psoriasis as assessed by chemiluminescence and monokine production. Clin Res 27:127A, 1979.
21. Krueger GG, Shelby: Xenogeneic skin grafts to nudes: Does donor response persist? Clin Res 28:69A, 1980.
22. Krueger GG, Shelby J, Hansen CD, Taylor MB: Comparison of labeling indices of skin involved and uninvolved with psoriasis: Placebo and oral retinoid RO 10-9359 vs. time. Clin Res 28:21A, 1980.
23. Olmstead AD, LaSalle BA, Zone JJ, Krueger GG: Immune complexes in the pathogenesis of hypergammaglobulinemic purpura. Clin Res 28:22A, 1980.
24. Gurish MF, Roberts LK, Krueger GG, Daynes RA: The failure of sunscreens to protect from induction of immune-mediated short-wave ultraviolet light-induced tumor susceptibility. Clin Res 28:249A, 1980.

25. Krueger GG, Shelby J: Xenogeneic skin grafts, pig and human, to nudes: Does donor response persist? Clin Res 289:571A, 1980.
26. Eyre RW, Krueger GG: Interrelations of the skin's response to injury and disease activity in psoriasis: Koebner and reverse Koebner phenomena. Clin Res 29:24A, 1981.
27. Krueger GG: Involved and uninvolved skin from psoriatic subjects are equally diseased. Clin Res 29:82A, 1981.
28. Spruance SL, Krueger GG: Effect of topical acyclovir on epidermal wound healing in pigs. Clin Res 82A, 1981.
29. Krueger GG, Eyre RW, Torres AR, Chambers DA: The Koebner and reverse Koebner reaction in psoriasis: Interrelations and correlations with serum factor. Clin Res 29:603A, 1981.
30. Krueger GG, Chambers DA: Involved and uninvolved skin from psoriatic subjects are equally diseased. Clin Res 29:603A, 1981.
31. Krueger G, Emam M, Daynes R: Selective migration of host Langerhans cells into xenogeneic skin grafts on nude mice. Clin Res 30:263A, 1982.
32. Krueger GG, Tinghitella TJ, Peterson EA: Increase of gene frequency for Gc2 in psoriasis. Clin Res 30:266A, 1982.
33. Chambers DA, Sando JJ, Cohen RL, Krueger GG: Athymic (nude) mouse lymphocyte resistance to the tumor promoter TPA. Clin Res 30:266A, 1982.
34. Cohen R, Sando JJ, Chambers DA, Hegamyer G, Colburn N, Krueger GG: TPA and EGF receptors in nude BALB/c mouse epidermis. Clin Res 30:580A, 1982.
35. Krueger G, Emam M: Response of Langerhans cells in human skin grafts on nude mice to betamethasone valerate and ultraviolet light. Clin Res 30:529A, 1982.
36. Krueger GG, Daynes RA, Emam M: Biology of Langerhans cells: Selective migration of Langerhans cells into allogeneic and xenogeneic grafts on nude mice and the correlative expression of Ia on all keratinocytes. Exp Cell Biol 50:315-316, 1982.
37. Chambers DA, Sando JJ, Cohen R, Krueger GG: Resistance of athymic (nude) mouse epidermis and lymphocytes to the tumor promoter TPA. Exp Cell Biol 50:319-320, 1982.
38. Johnston M, Huether S, Dixon J, Krueger G: Spectral and blood flow velocity measures of port-wine stain birthmarks before and after treatment with Argon laser. Clin Res 31:82A, 1983.
39. Krueger GG, Emam M, Roberts LK, Daynes RA: Induction of Ia expression by murine epidermal keratinocytes in vivo. Clin Res 31:148A, 1983.
40. Krueger GG, Emam M, Roberts LK, Daynes RA: Ia expression by murine epidermis *in vivo* without evidence of skin disease. Clin Res 31:580A, 1983.

41. Morhenn VB, Krueger G: The effect of a monoclonal antibody directed against human basal cells (VM-1) on the proliferation of benign keratinocytes. Clin Res 31:589A, 1983.
42. Burton SA, Wojciechowski ZJ, Krueger GG, Huether SE: Transcutaneous absorption of benzoic acid in a unique isolated skin flap model. Clin Res 32:17A, 1984.
43. Petersen MJ, Zone JJ, Krueger GG: Androgenic response of human sebaceous glands grafted onto the nude mouse. Clin Res 32:18A, 1984.
44. Wojciechowski ZJ, Huether SE, Leonard LG, Krueger GG: A grafted skin flap on an isolated vasculature as a model system to study skin pathophysiology. Clin Res 32:18A, 1984.
45. Emam M, Krueger GG: Interrelationships of Langerhans cells, Ia expression by non-Langerhans cells and epidermal proliferation in psoriasis. Clin Res 32:137A, 1984.
46. Roberts LK, Daynes RA, Krueger GG: The potential immunologic role of keratinocytes that express Ia antigens. Clin Res 32:143A, 1984.
47. Emam M, Yannas I, Krueger G: Biology of Langerhans cells: Further insights into origin and migration. J Invest Dermatol 82:437, 1984, and Clin Res 32(2): 581A, 1984.
48. Huether SE, Wojciechowski ZJ, Petelenz TJ, Leonard LG, Krueger GG: A model for measuring skin blood flow. Clin Res 33:92A, 1985.
49. Gilhar A, Wojciechowski Z, Krueger G: A study of human skin grafts on congenitally athymic (nude) rats. Clin Res 33:22A, 1985.
50. Seilstad KH, DeWitt CW, Krueger GG, Roberts LK: Tumor antigen expression in the skin of mice exposed to ultraviolet radiation. Clin Res 33:24A, 1985.
51. Gilhar A, Roberts LK, Daynes RA, Krueger GG: Effect of ultraviolet radiation on Ia expression by the epidermis. Clin Res 33:154A, 1985.
52. Wojciechowski ZJ, Burton SA, Petelenz TJ, Krueger GG: Role of microcirculation in percutaneous absorption. Clin Res 33:21A, 1985.
53. Burton SA, Wojciechowski ZJ, Rohr U, Krueger GG, Higuchi WI: Comparison of *in vivo* and *in vitro* transdermal drug absorption and dermal drug metabolism of vidarabine using a unique isolated skin flap model. Clin Res 33:152A, 1985, and Clin Res 33:628A, 1987.
54. Lee LA, Norris DA, Stevens JO, Krueger GG, Emam M, Weston WL: Antigen-specific antibody-keratinocyte interactions in cutaneous lupus. Clin Res 33:155A, 1985.
55. DiCicco LM, Mansbridge JN, Krueger GG, Emam M, Morhenn VB: Mechanism of action of VM-1 antibody: inhibition of attachment of tumor cells to collagen. Clin Res 33:153A, 1985.
56. Gilhar A, Wojciechowski Z, Krueger G: A study of human skin grafts on congenitally athymic (nude) rats. Clin Res 33(2): 298A, 1985.

57. Roberts LK, Spangrude GJ, Daynes RA, Krueger GG: Correlation between keratinocyte expression of Ia and the intensity of a contact hypersensitivity response. Clin Res 33(2): 302A, 1985.
58. Huether SE, Wojciechowski ZJ, Petelenz TJ, Leonard LG, Krueger GG: A model for measuring microcirculation in skin. Clin Res 33(2): 531A, 1985.
59. Gilhar A, Roberts LK, Daynes RA, Krueger GG: Effect of ultraviolet radiation on Ia expression by the epidermis. Clin Res 33(2): 640A, 1985.
60. Lee LA, Weston WL, Stevens JO, Krueger GG, Emam M, Norris DA: Differential *in vivo* binding of specific lupus sera in human skin. Clin Res 33(2) 661A, 1985.
61. Seilstad KH, DeWitt CW, Krueger GG, Roberts LK: Tumor antigen expression in the skin of mice exposed to ultraviolet radiation. Clin Res 33(2): 681A, 1985.
62. Wojciechowski ZJ, Burton SA, Petelenz TJ, Krueger GG: Role of microcirculation in percutaneous absorption. Clin Res 33(2) 696A, 1985.
63. Pershing LK, Krueger GG: Quantitative assessment of the disparity between *in vivo* and *in vitro* percutaneous absorption of caffeine. J Pharm Sci 74:P6, 1985.
64. Orme RL, Piepkorn MW, Krueger GG: Pigmentary changes in normal and vitiliginous human skin grafted to the nude mouse. Clin Res 34(1): 20A, 1986.
65. Gilhar A, Krueger GG: Hair growth in scalp grafts from patients with alopecia areata and alopecia universalis grafted onto nude mice. Clin Res 34(1):91A, 1986
66. Pershing LK, Wojciechowski ZJ, Petelenz TJ, Krueger GG: Enhanced percutaneous absorption of benzoic acid across a nude rat skin sandwich flap following phenylephrine induced vasoconstriction. Clin Res 34(1): 163A, 1986.
67. Roberts LK, Gahring LC, Krueger GG, Daynes RA: Mechanism associated with contact hypersensitivity, inflammation, and keratinocyte expression of Ia. Clin Res 34(1): 164A, 1986.
68. Pershing LK, Conklin RL, Krueger GG: Effects of reduced body temperature on blood flow and percutaneous absorption of ¹⁴C benzoic acid across grafted nude rat skin. Clin Res 34(2): 418A, 1986.
69. Pershing LK, Conklin RL, Krueger GG: An analysis of percutaneous absorption and binding of caffeine *in vivo* and *in vitro*. Clin Res 34(2): 773A, 1986.
70. Reichman RC, Bonnez W, Greisberger C, Whitley RJ, Tyring S, Miller L, Krueger GG, et al: Treatment of condyloma acuminatum with intralesionally administered interferons: A multicentered, placebo-controlled trial. Clin Res 34(2): 531A, 1986.
71. Fortson JS, Roberts LK, Krueger GG: Development of an animal model for contact allergic dermatitis using a "weak antigen". Clin Res 34(2): 750A, 1986.
72. Gilhar A, Krueger GG: Hair growth in scalp grafts from patients with alopecia areata and alopecia universalis grafted onto nude mice. Clin Res 34(2): 752A, 1986.

73. Roberts LK, Gahring LC, Wiedmeier SE, Krueger GG, Daynes RA: Mechanisms associated with contact hypersensitivity, inflammation, and keratinocyte expression of Ia. *Clin Res* 34(2): 777A, 1986.
74. Woodward DL, Rollins DE, Krueger G, Harris BJ: A dose-ranging study of viprostol, a topically active synthetic prostaglandin, to assess the effect of cutaneous blood flow. 6th Intl Conf on Prostaglandins & Related Cmpds, 1986.
75. Mukhtar H, Asokan P, Das M, Don PSC, Krueger GG, Bickers DR: Carcinogen metabolism in human skin grafted onto athymic nude mice: Effects of crude coal tar application. *J Invest Dermatol* 87:158, 1986.
76. English PE, Wiedmeier SE, Roberts LK, Araneo BA, Daynes RA, Krueger GG. Development of T cell competence in nude mice by normal skin grafts. *Clin Res* 35:117A, 1987 and *Clin Res* 35:682A, 1987.
77. Pershing LK, Lambert L, Krueger GG: Correlation of cutaneous blood flow between a laser Doppler velocimeter and an electromagnetic blood flow meter using the skin sandwich flap. *Clin Res* 35:181A, 1987.
78. Pershing LK, Conklin RL, Krueger GG: Assessment of the variation in percutaneous absorption across the skin sandwich flap. *Clin Res* 35:709A, 1987.
79. Pershing LK, Lambert L, Krueger GG: Influence of temporal blood flow variation on percutaneous absorption across the skin sandwich flap. *Pharmaceut Res* 4(2)S:70, 1987.
80. Krueger GG, Jorgensen CM: Expression of abnormal growth phenotype in fibroblasts from patients with psoriasis. *Clin Res* 36:250A & 664A, 1988.
81. Vanderhooft SL, Krueger GG, Zone JJ: Linear IgA disease antigen deposited in the basement membrane zone requires dermal influence. *Clin Res* 36: 121A, 1988.
82. Wall LL, Krueger GG: Differential effects of normal fibroblasts and exogenous IL-1 on normal keratinocytes and squamous cell carcinoma cells in a skin equivalent system. *Clin Res* 36:121A & 701A, 1988.
83. Bradshaw BR, Krueger GG: Reciprocal interaction between normal fibroblasts and two squamous cell carcinoma lines in a skin equivalent system. *Clin Res* 36:635A, 1988.
84. Jun B-D, Krueger GG, Roberts LK: Differential expression of Ia by murine keratinocytes and gut epithelium in response to recombinant gamma-interferon. *Clin Res* 36:658A, 1988.
85. Pershing LK, Jederberg WW, Conklin RL, Krueger GG: Mechanisms of cyclosporine enhanced percutaneous absorption in the skin sandwich flap model. *Clin Res* 36:684A, 1988.
86. Berger RM, Kadunce DP, Krueger GG, Zone JJ: Characterization of basement membrane zone components in skin equivalent systems. *Clin Res* 37:105A, 1989.

87. Pershing LK, Silver BS, Krueger GG, Shah V, Lam C, Skelley J: Parameters defining the correlation of stratum corneum drug content with vasoconstriction using topical corticosteroids. Clin Res 37:235A, 1989.
88. Krueger GG, Jorgensen CM: Induction of a psoriasis phenotype *in vitro*. Clin Res 37:756A, 1989.
89. Pershing LK, Lambert LD, Krueger GG: Oral cyclosporine A increases the diffusivity of skin *in vivo* thereby enhancing percutaneous absorption. Clin Res 37:727A, 1989.
90. Krueger GG, Jorgensen C, Miller C, Schroeder J, Stiecherling M, Christophers E Effects of IL-8 on epidermal proliferation. Clin Res 38:611A 1990
91. Pershing LK, Lambert LD, Krueger GG and Shah VP, Reproducibility and correlation of the Minolta Chromameter, Tape-stripping and visual blanching in assessing bioavailability of topical 0.05% betamethasone dipropionate.
92. English KB, Stayner N, Krueger GG, Horch K, Tuckett B, Burgess PR, and Emam M, Functional reinnervation of cultured skin grafts. The First Conference on Biologic Replacement in Sensory Systems, 1991.
93. Berberian B, Sulica VI, Dodd WA, Jarrat MT, Katz HI, Prawer SE, Krueger GG, Rex IH, Wolf JE, Flynn PL, Effectiveness of topical capsaicin treatment of pruritic psoriasis. 18th World Congress of Dermatology, June 12-18, 1992, NY, NY.
94. Krueger GG, Jorgensen CM, Pershing LK, Chemical and pharmacologic equivalence of trade and compounded minoxidil. Pharm. Res. 8:S208, 1991.
95. Pershing LK, Corlett J, Krueger GG, Shah VP and Lam SY, *In vivo* ketoconazole bioavailability in human stratum corneum following oral and topical administration. Pharm. Res. 8:S308, 1991.
96. Krueger GG, Jorgensen CM, Pershing LK, Haigh WG, Winget RR, Percutaneous absorption and pharmacologic activity of topically applied lipids containing either arachadonic acid or eicosapentanoic acid. Clin Res 40:164A, 1992.
97. Wright ED, Lambert L, Krueger GG, Shah VP, Pershing LK, Differential cutaneous uptake and clinical efficacy of oral versus topical ketoconazole in humans with tinea pedis. Clin Res 40:464A, 1992.
98. Pershing LK, Corlett J, Jorgensen C, Krueger GG, Shah VP, Wright ED, Disparity in ketoconazole activity *in vitro* versus tinea pedis subjects following oral and topical administration. Clin Res 40:535A, 1992.
99. Lew-Kaya DA, Sefton J, Krueger GG, Elias PM, and Lowe NJ, Safety and efficacy of a new retinoid gel in the treatment of psoriasis, Clin Res 40:459A, 1992.
100. Weinstein GD, Drake LA, Elias PM, Krueger GG, et. al. New topical retinoid gel for therapy of psoriasis: dose-ranging study of AGN 190168, Clin Res 41:425A, 1993.
101. Knapp TL, Liimatta AP, Miller KJ II, Wiley HS, Wilkins DG, Dingman DL, Peterson JL, Rollins DE, Krueger GG, Incorporation of environmental agents or

- drugs into hair using 35S cysteine as a simulant *in vitro* and *in vivo*, Clin Res 41:496A, 1993.
102. Rallis TM, Bakhtain S, Pershing LK, Krueger GG, A double-blind paired comparison efficacy and safety study of a retinoic acid formulation and a vehicle control in patients with Bateman's senile or actinic purpura, Clin Res 41:424A, 1993.
 103. Knutson K, Pershing LK, Oakeson R, Wright ED, Krueger GG, Clinical, TWEL and *in vivo* spectroscopic assessment of psoriatic lesions during oral cyclosporine therapy, Clin Res 41:420A, 1993.
 104. Wright ED, Weidner M, Poncelet C, Pershing L, Krueger GG, Comparison of objective and subjective methods of assessing efficacy of treatment of psoriasis using once vs. twice-daily cyclosporine, Clin Res 41:128A, 1993.
 105. Wilkins D, Rollins D, Seaman J, Botts J, Krueger G, Foltz R, A highly sensitive method for the quantitative analysis of codeine and morphine in human hair by positive chemical ionization mass spectrometry and its clinical applications (submitted to Chemical Problems in Drug Dependence, annual 1993 meeting).
 106. Jorgensen CM, Burton BM, Citteur JM, Krueger GG, Enhancement of dead human dermis as a matrix to transfer genetically modified fibroblasts from *in vitro* to *in vivo*, J. Invest Dermatol 102:578A, 1994.
 107. Kadunce DP, Jorgensen CM, Schmidt LA, Li H-L, Morgan JR, Petersen MJ, Kwan MK, Krueger GG, An *in vivo* assessment of long-term survival of genetically modified human fibroblasts cloned for expression of lac-z, J. Invest Dermatol 102:578A, 1994.
 108. Petersen M, Kaplan J, Morgan J, Jorgensen C, Li L-T, Schmidt L, Li H-L, Kwan M, Krueger G, Blood levels of human transferrin in athymic mice after transplantation of a dermal matrix containing genetically modified 3T3 cells, Clin Res 42:230A, 1994.
 109. Weinstein G, Jeffes E, Duvic M, Friedman D, Jegasothy B, Tharp M, Krueger G, Lowe N, Shummes E, Tschen E, Sefton J, Lew-Kaya D, Chandraratna R, Gibson J R, Tazarotene gel for the treatment of plaque psoriasis: a double blind clinical study, J Invest Dermatol 104:661, 1995.
 110. Krueger GG, Jorgensen CM, Li H-L, Morgan JR, Petersen MJ, Epidermal stem cells -- proof of concept using keratinocytes carrying the transgene lacZ in an *in vivo* setting, J Invest Dermatol 104:573, 1995.
 111. Jorgensen CM, Morgan JR, Petersen MJ, Kwan MK, Krueger GG, Comparison of the survival of pre-senescent with senescent human fibroblasts *in vivo* using a gene marker (lacZ), J Invest Dermatol 104:676, 1995.
 112. Lieb LM, Liimatta AP, Bryan RN, Krueger GG, Description and definition of a transfollicular route of permeation for topically applied agents to human skin scalp, J Invest Dermatol 104:655, 1995.

113. Knapp TL, Lieb LM, Pitcher CS, McPhaul MJ, Krueger, GG, Comparative expression of androgen receptor cells of the skin in culture versus paraffin fixed specimens of the scalp, *J Invest Dermatol* 104:628, 1995.
114. Kadunce DP, Liimatta A, Jorgensen CM, Morgan J, Krueger GG, Human growth hormone binding antibodies in nude mice secondary to gene therapy, *J Invest Dermatol* 104:676, 1995.
115. Wilkins DG, Rollins DE, Krueger GG, Disposition of codeine in male vs. female hair after multiple doses, (Presented at the College for Problems of Drug Dependence Annual Meeting, Scottsdale AZ, June 10-15, 1995).
116. Gygi SP, Colon F, Galinsky RE, Krueger GG, Wilkins DG, Rollins DE, Distribution of xenobiotics into hair as a biomarker of exposure, *Toxicologist* 15:192, 1995.
117. Rollins DE, Wilkins DG, Krueger GG, Disposition of drugs of abuse in human hair, *Clin Pharm Ther* 57:159, 1995.
118. Rollins DE, Wilkins DG, Krueger GG, Human hair transplanted to athymic mice as a model of drug incorporation, (Presented at the College for Problems of Drug Dependence Annual Meeting, Scottsdale AZ, June 10-15, 1995).
119. Krueger GG, Liimatta AP, Jorgensen CM, Morgan JR, Prolongation of genetically modified human fibroblasts in culture in an extracellular nylon matrix enhances survival *in vivo*, *J Invest Dermatol* 106: 806, 1996.
120. Morgan JR, Eming SE, Medalie DA, Wiley HS, Krueger GG, Targeted expression of EGF and IGF-1 to human keratinocytes: modification of the autocrine control of keratinocyte proliferation, *J Invest Dermatol* 106: 820, 1996.
121. CM Jorgensen, N Matsunami, JR Morgan, H-L Li, MJ Petersen, GG Krueger Immortalized Human keratinocytes form a functional epidermis and express transgenes *in vivo*, *J Invest Dermatol* 108:595, 1997.
122. LM Lieb, CM Jorgensen, JR Morgan, GG Krueger, Delivery of transgenes to follicles of human scalp *in vivo*, *J Invest Dermatol* 108:594, 1997.
123. M Lebwohl S Kang, G Krueger, J Abrams, CTLA4Ig (BMS-188667)-mediated blockade of T cell costimulation in patients with psoriasis vulgaris, *J Invest Dermatol* 108:570, 1997.
124. PR Nagasawa, GG Krueger, MH Slawson, DG Wilkins and DE Roliins, A mouse model for studying drug incorporation into human hair, presented at the Utah Society of Forensic Toxicology, Oct 5-9, 1997.
125. GG Krueger, CM Jorgensen, N Matsunami, JR Morgan, A Liimatta, MJ Petersen, Differentiation of immortalized human keratinocytes *in vivo*, *J Invest Dermatol*, 110:608, 1998.
126. GG Krueger, CM Jorgensen, JR Morgan, A Liimatta, MJ Petersen, Loss of transgene expression *in vivo* can be slowed, but not eliminated, by sequestering cells, *J Invest Dermatol*, 110:609, 1998.

127. LM Lieb, CM Jorgensen, A Liimatta, JR Morgan, GG Krueger, Topical delivery and gene expression of transgenes in human scalp skin *in vivo*, J Invest Dermatol, 110:608, 1998.
128. GG Krueger, CEM Griffiths, C Ellis, J Barker, J Ferguson, G Winkler, M Rogge, D Magilavy, Targeting CD2 for immunotherapy: Results of phase 1b/2a dose-escalation trials with LFA-3/IgG Fc fusion protein in moderate to severe plaque psoriasis. Presented @ the 1998 International Psoriasis Conference in Milan Italy.
129. PA Tresco, BW Hitchcock, C M Jorgensen, G G Krueger, Systemic delivery of human transferrin from genetically modified 3T3 cells housed in an encapsulated membrane in the subcutaneous space of athymic mice. Soc Invest Dermatol Mtg 1999
130. MC Rogge, C Ellis, G Krueger, M Cooney, G Winkler, D Magilavy, K Sweeny, Pharmacokinetics of LFA3TIP (Amevive™) in chronic plaque psoriasis patients during repeated once weekly intravenous administrations. J Invest Dermatol 112:608A, 1999
131. D Magilavy, T Mant, P Norman, G Krueger, C Griffiths, C Ellis, J Barker, G Winkler, M Rogge, Pharmacodynamic effects of LFA3TIP (Amevive™) in patients with chronic plaque psoriasis: selective modulation of CD45RO+ lymphocytes. J Invest Dermatol 112:609A, 1999
132. CM Jorgensen, JR Morgan MJ Petersen and GG Krueger Loss of transgene expression by fibroblasts *in vivo* is partially recoverable *in vitro* - a role for gamma-IFN? J Invest Dermatol 114:869A, 2000
133. GG Krueger, CM Jorgensen, JR Morgan and MJ Petersen, Maturity of extracellular matrix (ECM) does affect survival of and expression by genetically modified human fibroblasts *in vivo* J Invest Dermatol 114:786A, 2000
134. PA Tresco, Darin Messina, CM Jorgensen and GG Krueger, Transgene expression by and survival of genetically modified human fibroblasts (GMFb) in an encapsulated cell delivery device in the subcutaneous space of athymic mice J Invest Dermatol 114:825A, 2000
135. P Tristani-Firouzi, KP Meadows, GJ Spangrude and GG Krueger, Genetically modified human Langerhan cells (LC) in an *ex vivo* model of epidermis J Invest Dermatol 114:824A, 2000
136. D Magilavy* and GG Krueger** for the Amevive™ Clinical Study Group, The response of chronic plaque psoriasis to Amevive™(LFA3TIP) and the selective suppression of peripheral memory/effector T cells (CD45RO+) versus naïve T cells (CD45RA+) is linked to serum levels of LFA3TIP J Invest Dermatol 114:776A, 2000
137. KP Meadows, CM Jorgensen, A Takashima* and GG Krueger, Genetic modification of a murine dendritic cell line (XS106) and movement of these cells into an *ex vivo* model of epidermis J Invest Dermatol 114:825A, 2000

138. M Lohner, GG Krueger, A Gottlieb, K Beutner, R Levy, C Wiesnhtter, S Kang, C Camisa and G Schwab, A fully human anti-interleukin 8 antibody (ABX-IL8 for the treatment of psoriasis (Submitted Clinical Dermatolgy Meeting/Vienna May 2000)
139. PA Tresco, D Messina, CM Jorgensen and GG Krueger, Stability of transgene expression by genetically modified immortalized fibroblasts in an encapsulated device in the subcutaneous space of athymic mice J Invest Dermatol 117:531A, 2001
140. CM Jorgensen, MJ Petersen JR Morgan and GG Krueger, The microenvironment affects transgene expression by human fibroblasts *in vivo* J Invest Dermatol 117:530A,2001
141. G Krueger, D Bennett, J Haney, D Shrager, and A Vaishnaw, Circulating CD4+ and CD8+ Memory-Effector (CD45RO+) T Cells: Pharmacodynamic Markers During Alefacept Therapy J Invest Dermatol 117:545A, 2001
142. PS Gill, GG Krueger and DE Kohan, Doxycycline-Inducible Retroviral Expression of Green Fluorescent Protein in Immortalized Human Keratinocytes J Invest Dermatol 117:549A,2001
143. M Chen, GG Krueger (listed as K Krueger), CM Jorgensen, L Chan, JA Failey, DT Woodley, Dermal fibroblasts alone are capable of producing type VII (anchoring fibril)) collagen at the dermal-epidermal junction, J Invest Dermatol 117:398A,2001
144. Krueger GG, The challenge of using genetically modified fibroblasts as a vehicle for gene therapy, Acta Derm Venereol 81(3), 230-239, 2001
145. Krueger G and Vaishnaw A, The pharmacodynamic effect of alefacept and its relationship to clinical efficacy in chronic plaque psoriasis. Journal of the European Academy of Dermatology and Venereology, 15 Suppl 2, p251, 2001
146. Ellis C, Krueger G, and Vaishnaw A Repeated courses of alefacept therapy in chronic plaque psoriasis provide consistent efficacy and safety. Journal of the European Academy of Dermatology and Venereology, 15 Suppl 2, p246, 2001
147. Lebwohl M, Bissonnette R, Eliis C, Gordon K, Gottlieb A, Gulliver W, Korman N. Krueger G, Lowe N, Menter A, Papp K, Poulin Y, Washenik K and Shrager D, Study design and demographics of a double-blind, placebo-controlled phase III study to evaluate weekly intravenous bolus administration of alefacept in patients with psoriasis. Journal of the European Academy of Dermatology and Venereology, 15 Suppl 2, p248, 2001
148. Lowe N, Krueger GG, Menter A, Vigliani G, O' Gorman J, Ellis C, Results of Interim Analyses of Repeat Courses of Intramuscular Alefacept Therapy for the Treatment of Chronic Plaque Psoriasis. P579, AAD 2002, New Orleans
149. Lebwohl M, Bissonnette R, Ellis C, Gordon K, Gottlieb AB, Gulliver W, Korman N, Lowe N, Menter A, Papp K, Poulin Y, Washenik K, Vigliani G, Krueger GG, Results of a Multiple-Course, Randomized Phase III Study of Alefacept in Patients with Chronic Plaque Psoriasis. P580, AAD 2002, New Orleans

150. Krueger GG, Vaishnaw A, Gordon K, Alefacept (LFA-3/IgG₁), a Fully Human Fusion Protein, Is Non-Immunogenic in Patients With Chronic Plaque Psoriasis. P583, AAD 2002, New Orleans
151. Krueger GG, Rizova E, Duration of Response to Alefacept Therapy in Patients With Chronic Plaque Psoriasis. P584, AAD 2002, New Orleans
152. Langley R, Christophers E, Krueger GG, Vigliani G, Lebwohl M, Study Design and Demographics of Two Phase III Trials to Evaluate Weekly Intravenous and Intramuscular Administration of Alefacept in Chronic Plaque Psoriasis. P590, AAD 2002, New Orleans
153. GG Krueger CM Jorgensen, T Tandeski, JR Morgan, MJ Petersen; Loss of transgene expression by genetically modified human fibroblasts *in vivo* is not a function of the immunodeficient state of the murine host: nude vs NOD-SCID, Presented at the 2002 SID (Los Angeles) and the 2002 ASGT (Boston).
154. CM Jorgensen, T Tandeski, JR Morgan, MJ Petersen, GG Krueger Long-term transgene expression and survival by genetically modified fibroblasts *in vitro*, Presented at the 2002 SID (Los Angeles) and the 2002 ASGT (Boston).
155. MJ Petersen, CM Jorgensen, T Tandeski, M Chen, JR Morgan, GG Krueger Transgene expression by human fibroblasts *in vivo* is under hierarchical regulation, Presented at the 2002 SID (Los Angeles) and the 2002 ASGT (Boston).
156. T Tandeski, CM Jorgensen, M Chen, JR Morgan, MJ Petersen, GG Krueger; Survival of genetically modified fibroblasts *in vivo* as a function of cloning, transduction and cellular lifespan, Presented at the 2002 SID (Los Angeles) and the 2002 ASGT (Boston).
157. M Tabrizi, GG Krueger, S Huang, L Roskos, M Horowitz, N Raie, H Lu GM Bell, Pharmacokinetics and pharmacodynamics of ABX-IL8 in patients with psoriasis, Presented at the 2002 SID (Los Angeles).
158. GG Krueger, GM Bell, S Huang, M Wyres, M Horowitz, F Chen, ABX-IL8 in the treatment of psoriasis: clinical results, Presented at the 2002 SID (Los Angeles).
159. GG Krueger, Efficacy of two courses of intravenous alefacept in patients with chronic plaque psoriasis, Presented at the 2002 SID (Los Angeles).

REVIEWS AND BOOK CHAPTERS

1. Krueger GG: Periarteritis nodosa. In: Current Therapy, HF Conn (ed), WB Saunders Co., Philadelphia, 1975, pp. 611-612.
2. Krueger GG: Transplantation of psoriatic skin as a model system for psoriasis, In: Psoriasis, Proceedings of the Second International Symposium, Farber EM, Cox AJ (eds), Yorke Medical Books, New York, 1976, pp. 189-195.

3. Krueger GG, McQuarrie HG, Swinyer JL: Desirable and undesirable cutaneous effects of oral contraceptives. *Drug Therapy* 7:46, 1977.
4. Krueger GG: Lymphokines in health and disease, a review. *Int J Dermatol* 16:539, 1977.
5. Krueger GG, Spruance SL, Overall JC Jr: Herpes simplex labialis. A review of pathogenesis, natural history, and therapy. *J.C.E. Dermatology*, October 1978, pp. 19-37.
6. Krueger GG, Chambers DA, Huff C: The nude mouse in dermatology. *Prog Dermatol* 12:17-22, 1978.
7. Krueger GG, Murphy K, Cohn R: Herpes simplex infections in the athlete. *Sports Medicine*, September 1978.
8. Jederberg WW, Krueger GG: Monocyte chemiluminescence: Physical and biological parameters, In: *Liquid Scintillation Counting Recent Applications and Development. Vol II. Sample Preparation and Applications*, CT Peng (ed), Academic Press, New York, 1980, pp. 355-375.
9. Krueger GG: Mononuclear cell products in cell proliferation, In: *The Surgical Wound*, P Dineen and G Hildick-Smith (eds), Lea & Febiger, Philadelphia, 1981, Chapter 6, pp. 75-87.
10. Krueger GG: Psoriasis: Current concepts of the etiology and pathogenesis, In: *Year Book of Dermatology*, RL Dobson and BH Thiers (eds), Year Book Medical Publishers, Inc, Chicago, 1981, pp. 13-70.
11. Krueger GG, Jederberg WW: Mononuclear cell function and its relative potential in the pathogenesis of psoriasis, In: *Autoimmunity in Psoriasis*, Beutner EH (ed), CRC Press, Boca Raton, Florida, 1982, pp. Chapter 14, 183-203.
12. Krueger GG, Briggaman RA: The nude mouse in the biology and pathology of skin, In: *The Nude Mouse in Experimental and Clinical Research*, J Fogh and BC Giovanella (eds), 2nd Edition, Academic Press, New York, 1982, Chapter 14, pp. 301-322.
13. Krueger GG, Chambers DA, Shelby J: Comparative effects of proliferative agents on nude mouse skin, pig skin, and xenogeneic pig skin grafts to nudes, In: *Proceedings of the Third International Workshop on Nude Mice*, N Reed and J Rygaard (eds), Gustav-Fisher, Inc., New York, 1982, pp. 435-445.
14. Krueger GG: Involved and uninvolved psoriatic epidermis transplanted onto nude mice, In: *Psoriasis*, Farber EM, Cox AJ, Nall L, and Jacobs PH (eds), Grune & Stratton, Inc., 1982, pp. 313-314.
15. Krueger GG: Clinical Photoimmunology: Introductory Comments, In: *Experimental and Clinical Photoimmunology*, Vol. II, CRC Press, Boca Raton, Florida, 1983.
16. Chambers DA, Sando JJ, Cohen RL, Krueger GG: Innate resistance to tumor promotion in nude mice, In: *Cell Proliferation and Psoriasis*, NA Wright and RS Camplejohn (ed), Churchill-Livingston, 1983, pp. 306-313.

17. Reifenrath WG, Chellquist EM, Shipwash EA, Jederberg WW, Krueger GG: Percutaneous penetration in the hairless dog, weanling pig and grafted athymic nude mouse: Evaluation of models for predicting skin penetration in man. *Br J Dermatol (Suppl 27)* 111:123-135, 1984.
18. Krueger GG, Bergstresser PR, Lowe NJ, Voorhees JJ, Weinstein GD: Psoriasis. *J Am Acad Dermatol* 11:937-947, 1984.
19. Chambers DA, Cohen RL, Sando JJ, Krueger GG: Resistance to TPA-induced mitogenesis in the nude mouse, In: *Immune Deficient Animals in Experimental Research*, B Sordat (ed), Karger, Basel, 1984, *Expt Cell Biol* 52:125-128.
20. Krueger GG, Daynes RA, Roberts LK, Emam M. Migration of Langerhans cells and the expression of Ia on epidermal cells following the grafting of normal skin to nude mice. In: *Immune Deficient Animals in Experimental Research*, B Sordat (ed), Karger, Basel, 1984, *Expt Cell Biol* 52:97-102.
21. Krueger GG, Eyre RA: Trigger factors in psoriasis. *Dermatology Clinics of North America*, G Weinstein, J Voorhees (eds), W.B. Saunders, July 1984, pp. 373-381.
22. Krueger GG, Wojciechowski ZJ, Burton SA, et al: The development of a rat/human skin flap served by a defined and accessible vasculature on a congenitally athymic (nude) rat. *Fundamental & Applied Toxicology* 5:S112-S121, 1985.
23. Roberts LK, Krueger GG: Monoclonal antibodies, In: *Dermatologic Immunology and Allergy*, Stone J (ed), Mosby Co., St. Louis, MO, 1985, pp. 877-888.
24. Eyre RA, Krueger GG: The Koebner response in psoriasis, In: *Psoriasis*, HH Roenigk and HI Maibach (eds), Marcel Dekker Inc., New York, NY, 1985, pp. 105-116.
25. Krueger GG, Christophers E, Draper RE: Psoriasis: Clinical Features and Pathogenesis, Chapter 11, in: *Psoriatic Arthritis*, Gerber LH, and Espinoza LR (editors), Grune & Stratton, Inc., New York, pp. 167-189, 1985.
26. Daynes RA, DK Burnham, CW DeWitt, LK Roberts and GG Krueger. 1985. The immunobiology of ultraviolet radiation carcinogenesis. In: *Cancer Surveys*, Vol. 4, #1: *Tumor Antigens in Experimental and Human Systems*, LW Law (ed), Oxford University Press, London, pp. 51-99.
27. Krueger GG, Christophers E: Psoriasis, In: *Dermatology in General Medicine*, Third Edition, TB Fitzpatrick, AZ Eisen, K Wolff, WM Freedberg, KF Austen (eds), McGraw Hill, New York, NY, 1987, pp. 461-491.
28. Pershing, LK, Krueger GG: New animal models for bioavailability studies. In: *Pharmacology and the Skin*, B Shroot & H Schaefer (eds), S. Karger, Basel, pp. 57-69, 1987.
29. Krueger GG: Experimental systems to study the etiopathogenesis of psoriasis. In: *Psoriasis, Proceedings of the Fourth International Symposium*, EM Farber, L Nall, V Morhenn & PH Jacobs (eds), Elsevier, New York, NY, pp. 106-112, 1987.
30. Krueger GG, Stingl G: Immunology/inflammation of the skin - a 50-year perspective. *J Invest Dermatol* 92(Suppl): 32S-51S, 1989.

31. Krueger GG: The potential role of fibroblasts in the pathogenesis of psoriasis. In: Proceedings of the 5th Korea-Japan Joint Meeting of Dermatology, Korean Dermatological Association, Japanese Dermatological Association, pp. 66-71, 1989.
32. Krueger GG: A perspective of psoriasis as an aberration in skin modified to expression by the inflammatory/repair system. In: Immune Mechanisms in Cutaneous Disease, DA Norris (ed), Marcel Dekker, Inc., New York, pp. 425-445, 1989.
33. Pershing LK, Krueger GG: Human skin sandwich flap model for percutaneous absorption. In: Percutaneous Absorption, Second Edition, Dermatology Vol. 7, R Bronaugh & H Maibach (eds), Marcel Dekker, New York, NY, pp. 397-414, 1989.
34. Krueger GG, Jorgensen CM, Bradshaw BR, Wall LL, Park SD, Roberts LK: An approach for and an assessment of interactive communication via cytokines of cellular components of skin. Proceedings of the International Symposium on Chemical Mediators in Skin Inflammation, Sendai, Japan, August, 1988. *Dermatologica* 179(suppl): 91-100, 1989.
35. Krueger GG, Jorgensen CM, Experimental models for psoriasis. *J Invest Dermatol* 95: 56s-58s, 1990.
36. Krueger GG, Pershing LK, Skin xenografts and their utility in pharmacologic research. Chapter # 4 In: Skin Pharmacology; pp 41-72; H. Muktar (editor) CRC press, 1992.
37. Krueger GG, Pershing LK, Human skin xenografts to athymic rodents as a system to study toxins delivered to or through skin. Chapter # 25 In: Health Risk Assessment -- Dermal and Inhalation Exposure and Absorption of Toxicants; pp 413-437; Rhoda G. M. Wang, James B. Knaak and Howard I. Maibach (editors); CRC press, 1992.
38. Pershing LK, Parry GE, Bunge A, Krueger GG, Shah VP, Assessment of topical corticosteroid bioavailability in vivo and in vitro; in Topical Drug Bioavailability, Bioequivalence and Penetration; pp 351-366, HI Maibach and VP Shah (editors) Plenum Publishing Corp, New York NY, 1993.
39. Krueger GG, Elias PM, Lowe NJ, Safety and efficacy of a new topically applied retinoid (AGN 190168) in the treatment of psoriasis; in Dermatology - Progress and Perspectives (the Proceedings of the 18th World Congress of Dermatology) pp 166-170, W H C Burgdorf and S I Katz, (editors); A F Hood, F D Malkinson, M S Peters, J K Robinson, and R Swerlick (assoc editors) The Parthenon Publishing Group, London, 1993.
40. Katz HI, Koo J, Krueger GG, Lebwohl MG, Shelley ED, Waging war on psoriasis; *Patient Care* 26:145-175, 1992.
41. Krueger GG, and Duvic M Epidemiology of Psoriasis: Definition / Classification / Clinical Issues. In proceedings of Scientific workshop: Epidemiology of Skin Disease Sponsored by the National Institute of Arthritis and Musculoskeletal and Skin Disease March 25-26, 1993, *J. Invest. Dermatol* 102:14S-18S (June), 1994.

42. Krueger GG; Psoriasis therapy - observational or rational, (Editorial); The New England Journal of Medicine, 328:1845-1846, 1993.
43. Krueger GG, Morgan JR, Jorgensen CM, Petersen, MJ and Kaplan J; Use of Genetically Modified skin to treat disease -- Potential and Limitations; J Invest Dermatol 103 76S-84S, 1994.
44. Kadunce DP, Krueger GG, Pathogenesis of psoriasis: Current concepts, in Dermatologic Clinics 13:723-737, Mark Lebwohl and Michael Zanolli (editors) 1995.
45. Mentor, A ... Krueger GG ... others, Proceedings of the psoriasis combination and rotation therapy conference, Deer Valley, UT October 7-9, 1994. J. Am. Acad. Dermatol. 34:315-322, 1996.
46. Rollins DE, Wilkins DG, Krueger GG, Models for studying the cellular processes and barriers to the incorporation of drugs into hair, NIDA Research Monograph No. 154; Membranes and Barriers: Targeted Drug Delivery pp 235-244, 1995.
47. Rollins DE, Slawson MH, Wilkins DG, Gygi SP, Pitcher C, Krueger GG, Models for studying the distribution of drugs of abuse into hair, in Hair Analysis in Forensic Toxicology, Editors RA de Zeeuw, IA Hosani, SA Munthiri and A Magbool, Proceedings of the 1995 International Conference and Workshop, pp 60- 88, 1995.
48. Menter A, See AJ, Amend WJ, Ellis CN, Krueger GG, Lebwohl M, Morison WL, Prystowsky JH, Roenigk Hh, Shupack JL, Silverman AK, Wienstein GD, Yocum DE, Aanoli MD, Proceedings of the psoriasis combination and rotation therapy conference, J Am Acad Dermatol 34:315-321, 1996.
49. Khavari PA, Krueger, GG Cutaneous Gene Therapy, in Dermatologic Clinics Consulting Editor BH Thiers; Advances in Clinical Research, Guest Editor JH Prystowsky, 15:27-33,1997.
50. Tristani-Firouzi P, Krueger GG, Efficacy and safety of treatment modalities for psoriasis, Cutis 61/2S:11-21, 1998.
51. Tristani-Firouzi P, O' Reilly MA, Krueger GG, Topical therapies for treating moderate to severe psoriasis, Cutis 61:11-21, 1998.
52. Morison WL, Baughman RD, Day RM,Krueger GG,....Whitmore, SE, Consensus workshop on long-term PUVA toxicity, Arch Dermatol, 134:595-598, 1998.
53. Lebwohl M, Ellis C, Gottlieb A, Koo J, Krueger G, Linden K, Shupack, J and Weinstein G, Cyclosporine Consensus Conference, J Am Acad Dermatol 39:464-475, 1998.
54. Krueger GG, Morgan JR. Petersen MJ, Biologic aspects of expression of stably integrated transgenes in cells of the skin *in vitro* and *in vivo*, Proceedings of the American Association of Physicians, 111:198-205 1999.
55. Tristanti-Firouzi P, Krueger GG, Book review " 3rd edition of " Psoriasis" NEJM 340:899-900, 1999.

56. Tristanti-Firouzi P, Florell SR, Krueger GG, Pathogenesis of psoriasis, Dermatology Internet Project, editor Thomas B Habif, access, <http://www.dermnet.com> -- entered online Feb 2000.
57. Krueger GG, for the Medical Advisory Board of the National Psoriasis Foundation, The NPF Psoriasis Score published in the National Psoriasis Foundation " Psoriasis Forum, vol 5 / issue 4, winter 1999.
58. Krueger GG, Fibroblasts and dermal gene therapy: A mini-review, Human Gene Therapy, 11:2289-2296, 2000.
59. Krueger GG in conjunction with Precept Medical, Selective targeting of T-cell subsets with alefacept: a remittive psoriasis therapy. A CME Supplement to Oct 2001 Skin and Allergy News.
60. Krueger GG, Selective targeting of T-cell subsets: focus on alefacept – a remittive therapy for psoriasis, Expert Opinion on Biological Therapy 2:431-441, 2002
61. Krueger GG, Clinical Features of Psoriatic Arthritis, Am J Manag Care 8:S160-S170, 2002.
62. Krueger GG and Rizova E, The pharmacodynamic effect of alefacept and its relationship to clinical efficacy in chronic plaque psoriasis, Journal of the European Academy of Dermatology and Venereology; Supplement of the 10th EADV Congress October 2001, 555-558, 2002.
63. Krueger GG and Callis KP, Alefacept to Treat Psoriasis, *Chapter 13 in NPF Manual to Treat Moderate to Severe Psoriasis, 2nd edition*, Publisher Marcel-Dekker, New York editors Alice B Gottlieb and Gerald D Weinstein, 287-306, 2003.
64. Callis KP and Krueger GG, Topical treatments for Moderate to Severe Psoriasis, *Chapter 2 in NPF Manual to Treat Moderate to Severe Psoriasis, 2nd edition*, Publisher Marcel-Dekker, New York editors Alice B Gottlieb and Gerald D Weinstein, 29-52, 2003..
65. Krueger GG, Editor of Symposium " From Pathogenesis to Practice: Selectively Targeting T Cells to Improve Clinical Outcomes in Psoriasis" from presentation at the SID May, 2002.
66. Krueger GG and Callis KP, Development and use of alefacept to treat psoriasis, J Am Acad Dermatol, 49:S87-S97, 2003.
67. Ellis CN, Krueger GG and Vaishnaw A, Repeated courses of alefacept therapy in chronic plaque psoriasis provide consistent efficacy and safety, Journal of the European Academy of Dermatology and Venereology; Supplement of the 10th EADV Congress October 2001, 533-536, 2002.
68. Krueger GG, Clinical response to alefacept: results of a phase 3 study of intravenous administration of alefacept in patients with chronic plaque psoriasis, Journal of the European Academy of Dermatology and Venereology 17 Supplement 2:17-24, 2003.
69. Gordon KB, Koo JYM, Feldman SR, Menter A, Krueger GG Definitions of measures of effect of duration on psoriasis treatments, Physicians Forum 8/3:1-4, 2002.

70. Krueger GG, Current concepts and review of alefacept in the treatment of psoriasis, in *Dermatology Clinics* editor Bruce Thiers MD Editor Elsevier Philadelphia USA; guest editor Alan Menter Chapter 7 in Volume entitled *Advances in Psoriasis for the Twenty First Century: Pathogenesis and Treatment*, submitted 1 Sept 2003.

LETTERS TO THE EDITOR

1. Weston WL, Krueger GG, Macrophage-Migration Inhibition, NEJM 291:366, 1977.
2. Krueger GG, Reply, J Am Acad Dermatol 19:569-570, 1988.
3. Roberts, LK, Krueger, GG, Reply, J Invest Dermatol 93:386, 1989
4. Krueger GG, Leyden JJ, Attraction of MD-PhDs to Dermatology, Arch Dermatol, 126:248, 1990.
5. Ellis CN, Krueger GG, Treatment of Plaque Psoriasis NEJM 345:1853-54, 2001.
6. Krueger GG, Callis KP Reply to Thioguanine for psoriasis, J Am Acad Dermatol in press 2002.
7. Krueger GG, Alefacept – A viewpoint by Gerald G Krueger in a paper entitled "Alefacept" authors J E Frampton and A J Wagstaff, Am J Clin Dermatol 4:277-286, 2003

ARTICLES FOR PATIENT INFORMATION

1. Krueger GG: " Dr Tell Me" for the National Psoriasis Foundation Bulletin, October 1997.
2. Krueger GG: " Dr Tell Me" for the National Psoriasis Foundation Bulletin, August 1998.
3. Krueger GG: " Dr Tell Me" for the National Psoriasis Foundation Bulletin, June 1999.

SPECIAL ARTICLES

1. J Invest Dermatol " In This Issue" Feb 1999
2. J Invest Dermatol " In This Issue" Feb 2000

BOOKS

1. Experimental and Clinical Photoimmunology, Vol. II, Daynes RA, and Krueger GG (editors), CRC Press, Boca Raton, Florida, 1983.
2. Experimental and Clinical Photoimmunology, Vol. III, Daynes RA, and Krueger GG (editors), CRC Press, Boca Raton, Florida, 1986.

PATENTS

" METHODS OF TESTING THE REACTION OF VARIOUS SUBSTANCES ON LIVING HUMAN SKIN" This patent describes what we have come to call the Rat Human Skin Sandwich Flap (RHSSF).

Patent # 4,677,968

Date of patent : 7/7/87

Inventor: Gerald G. Krueger

Assignee: University of Utah Research Foundation